Paul C H Li

List of Publications by Year
in descending order

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101 papers	2,860 citations	249298 26 h-index	198040 52 g-index
103 all docs	103 docs citations	103 times ranked	3783 citing authors

#	Article	IF	Citations
1	Conventional and unconventional methodologies for multiplex nucleic acid tests. , 2022, , 235-255.		0
2	The genetic authentication of Panax ginseng and Panax quinquefolius based on using single nucleotide polymorphism (SNP) conducted in a nucleic acid test chip. Analytical and Bioanalytical Chemistry, 2022, , 1.	1.9	2
3	Screening of high-efficiency and low-toxicity antitumor active components in Macleaya cordata seeds based on the competitive effect of drugs on double targets by a new laminar flow chip. Analyst, The, 2021, 146, 4934-4944.	1.7	5
4	Development of the immunoassay of antibodies and cytokines on nanobioarray chips. , 2021, , 489-509.		0
5	Intracellular Calcium Increases Due to Curcumin Measured Using a Single-Cell Biochip. Analytical Letters, 2021, 54, 2769-2776.	1.0	2
6	Quantification of Cannabinoids in Cultivars of Cannabis sp. by Gas Chromatographyâ€“Mass Spectrometry. Chromatographia, 2021, 84, 711-717.	0.7	4
7	Presence of an EML4-ALK gene fusion detected by microfluidic chip DNA hybridization. Bioscience, Biotechnology and Biochemistry, 2021, 85, 197-204.	0.6	0
8	Automation for two-position fluorescence measurement of a single cell captured in a microfluidic biochip. , 2021, , .		0
9	Simultaneous determination of free and total paclitaxel in blood in a three-phase laminar flow microchip. Journal of Chromatography A, 2020, 1627, 461391.	1.8	3
10	The microfluidic capture of single breast cancer cells for multi-drug resistance assays. Methods in Enzymology, 2019, 628, 113-127.	0.4	1
11	A microfluidic antibody bioarray for fast detection of human interleukins in low sample volumes. Canadian Journal of Chemistry, 2019, 97, 737-744.	0.6	3
12	A successive laminar flow extraction for plant medicine preparation by microfluidic chip. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	12
13	Dielectrophoretic trapping of single leukemic cells using the conventional and compact optical measurement systems. Electrophoresis, 2019, 40, 1478-1485.	1.3	10
14	Construction of an Array of Photonic Crystal Films for Visual Differentiation of Water/Ethanol Mixtures. ACS Omega, 2019, 4, 19991-19999.	1.6	2
15	Rapid Detection of Antibody in Biological Fluids on a Bioarray Chip. Analytical Letters, 2019, 52, 839-851.	1.0	1
16	Effect of buffer composition on PNAâ€“RNA hybridization studied in the microfluidic microarray chip. Canadian Journal of Chemistry, 2018, 96, 241-247.	0.6	10
17	Millifluidic chip with a modular design used as a sample pretreatment cartridge for flour and flour food products. Talanta, 2018, 179, 719-725.	2.9	8
18	Integration of laminar flow extraction and capillary electrophoretic separation in one microfluidic chip for detection of plant alkaloids in blood samples. Analytica Chimica Acta, 2017, 985, 121-128.	2.6	22

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19	NanoHDA: A nanoparticle-assisted isothermal amplification technique for genotyping assays. Nano Research, 2017, 10, 12-21.	5.8	19
20	Two-Dimensional Microfluidic Bioarray for Nucleic Acid Analysis. , 2017, , 563-580.		0
21	Dielectrophoretic Microfluidic Chip Enables Single-Cell Measurements for Multidrug Resistance in Heterogeneous Acute Myeloid Leukemia Patient Samples. Analytical Chemistry, 2016, 88, 5680-5688.	3.2	35
22	Overview of Microarray Technology. Methods in Molecular Biology, 2016, 1368, 3-4.	0.4	13
23	High-Throughput DNA Array for SNP Detection of KRAS Gene Using a Centrifugal Microfluidic Device. Methods in Molecular Biology, 2016, 1368, 133-141.	0.4	4
24	DNA Microarray-Based Diagnostics. Methods in Molecular Biology, 2016, 1368, 161-178.	0.4	40
25	Microfluidic Devices for Circulating Tumor Cells Isolation and Subsequent Analysis. Current Pharmaceutical Biotechnology, 2016, 17, 810-821.	0.9	24
26	Dip-in Indicators for Visual Differentiation of Fuel Mixtures Based on Wettability of Fluoroalkylchlorosilane-Coated Inverse Opal Films. ACS Applied Materials & Interfaces, 2015, 7, 28387-28392.	4.0	11
27	Label-free isolation of a prostate cancer cell among blood cells and the single-cell measurement of drug accumulation using an integrated microfluidic chip. Biomicrofluidics, 2015, 9, 064104.	1.2	34
28	Enhanced destabilization of mismatched DNA using gold nanoparticles offers specificity without compromising sensitivity for nucleic acid analyses. Nano Research, 2015, 8, 3922-3933.	5.8	13
29	Magnetic Droplet Microfluidics as a Platform for the Concentration of [¹⁸F]Fluoride and Radiosynthesis of Sulfonyl [¹⁸F]Fluoride. ACS Applied Materials & Interfaces, 2015, 7, 12923-12929.	4.0	23
30	Microchip electrophoretic separation and fluorescence detection of chelerythrine and sanguinarine in medicinal plants. Talanta, 2015, 142, 90-96.	2.9	15
31	Microfluidic Same-Single-Cell Analysis. , 2015, , 2005-2014.		0
32	Ginsenosides in Commercial Ginseng Products Analyzed by Liquid Chromatography-Tandem Mass Spectrometry. , 2014, 2014, 1-8.		6
33	Challenges and Future Trends in DNA Microarray Analysis. Comprehensive Analytical Chemistry, 2014, 63, 25-46.	0.7	3
34	Study of flow behaviors on single-cell manipulation and shear stress reduction in microfluidic chips using computational fluid dynamics simulations. Biomicrofluidics, 2014, 8, 014109.	1.2	70
35	Same-single-cell analysis using the microfluidic biochip to reveal drug accumulation enhancement by an amphiphilic diblock copolymer drug formulation. Analytical and Bioanalytical Chemistry, 2014, 406, 7071-7083.	1.9	17
36	Kras gene codon 12 mutation detection enabled by gold nanoparticles conducted in a nanobioarray chip. Analytical Biochemistry, 2014, 448, 58-64.	1.1	21

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37	A Proposed Mechanism of the Influence of Gold Nanoparticles on DNA Hybridization. ACS Nano, 2014, 8, 6765-6777.	7.3	38
38	7. Continuous-flow synthesis of carbon-11 radiotracers on a microfluidic chip. , 2014, , 189-212.		0
39	Microfluidic Same-Single-Cell Analysis. , 2014, , 1-12.		0
40	Drug Accumulation Into Single Drug-Sensitive and Drug-Resistant Prostate Cancer Cells Conducted on the Single Cell Bioanalyzer. , 2014, , .		1
41	Computational fluid dynamics study of the synthesis process for a PET radiotracer compound, [11C]raclopride on a microfluidic chip. Chemical Engineering and Processing: Process Intensification, 2013, 70, 140-147.	1.8	6
42	Continuous-flow synthesis of [¹¹C]raclopride, a positron emission tomography radiotracer, on a microfluidic chip. Canadian Journal of Chemistry, 2013, 91, 326-332.	0.6	14
43	Gold Nanoparticle Assists SNP Detection at Room Temperature in the NanoBioArray Chip. International Journal of Materials Science and Engineering, 2013, , 45-49.	0.1	1
44	A nanofluidic bioarray chip for fast and high-throughput detection of antibodies in biological fluids. Proceedings of SPIE, 2012, , .	0.8	1
45	High sensitivity, supramolecular thin films for sensing of methane. , 2012, , .		0
46	Fabrication and testing of hydrogel-based microvalves for flow control in flexible lab-on-a-chip systems. Proceedings of SPIE, 2012, , .	0.8	0
47	Repeated capillary electrophoresis separations conducted on a commercial DNA chip. Analytical Methods, 2012, 4, 864.	1.3	8
48	Highly sensitive supra-molecular thin films for gravimetric detection of methane. Sensors and Actuators B: Chemical, 2012, 161, 954-960.	4.0	24
49	A simple and fast microfluidic approach of same-single-cell analysis (SASCA) for the study of multidrug resistance modulation in cancer cells. Lab on A Chip, 2011, 11, 1378.	3.1	75
50	Analysis and modeling of flow in rotating spiral microchannels: towards math-aided design of microfluidic systems using centrifugal pumping. Lab on A Chip, 2011, 11, 2097.	3.1	19
51	Microfluidic DNA microarray analysis: A review. Analytica Chimica Acta, 2011, 687, 12-27.	2.6	126
52	Optimization of a microfluidic microarray device for the fast discrimination of fungal pathogenic DNA. Analytical Biochemistry, 2010, 400, 282-288.	1.1	42
53	Strategies for the real-time detection of Ca²⁺channel events of single cells: recent advances and new possibilities. Expert Review of Clinical Pharmacology, 2010, 3, 267-280.	1.3	10
54	Gold nanoparticle-assisted single base-pair mismatch discrimination on a microfluidic microarray device. Biomicrofluidics, 2010, 4, 032209.	1.2	23

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55	A rotating microfluidic array chip for staining assays. Talanta, 2010, 81, 1203-1208.	2.9	25
56	Real-time detection of the early event of cytotoxicity of herbal ingredients on single leukemia cells studied in a microfluidic biochip. Integrative Biology (United Kingdom), 2009, 1, 90-98.	0.6	33
57	Resveratrol Analysis and Degradation Study in Blueberry Samples by HPLC with Fluorescence Detection. Journal of Liquid Chromatography and Related Technologies, 2009, 32, 3038-3048.	0.5	9
58	Real-Time Measurement of Chemotherapeutic Drug Transport in an Individual Cancer Cell Selected in a Microfluidic Biochip. , 2009, , .		1
59	Fungal pathogenic nucleic acid detection achieved with a microfluidic microarray device. Analytica Chimica Acta, 2008, 610, 97-104.	2.6	48
60	Same-Single-Cell Analysis for the Study of Drug Efflux Modulation of Multidrug Resistant Cells Using a Microfluidic Chip. Analytical Chemistry, 2008, 80, 4095-4102.	3.2	72
61	Simultaneous optical and fluorescent microscopic measurement of drug retention in single cancer cells. , 2008, , .		1
62	Fluid mixing achieved in a microreact chip. , 2008, , .		0
63	Inkjet Printed Electrode Arrays for Potential Modulation of DNA Self-Assembled Monolayers on Gold. Analytical Chemistry, 2008, 80, 8814-8821.	3.2	11
64	Nucleic acid microarrays created in the double-spiral format on a circular microfluidic disk. Lab on A Chip, 2008, 8, 826.	3.1	45
65	Artesunate Derived from Traditional Chinese Medicine Induces DNA Damage and Repair. Cancer Research, 2008, 68, 4347-4351.	0.4	180
66	Flexible enclosure for fluidic sealing of microcomponents. , 2008, , .		1
67	Measurement of Intracellular Drug Concentration in a Single Cancer Cell Isolated in a Microfabricated Biochip for Cancer Diagnosis. , 2008, , .		0
68	From traditional Chinese medicine to rational cancer therapy. Trends in Molecular Medicine, 2007, 13, 353-361.	3.5	470
69	Chemical Separation of Bioactive Licorice Compounds Using Capillary Electrophoresis. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 2805-2817.	0.5	4
70	Flexible Microarray Construction and Fast DNA Hybridization Conducted on a Microfluidic Chip for Greenhouse Plant Fungal Pathogen Detection. Journal of Agricultural and Food Chemistry, 2007, 55, 10509-10516.	2.4	45
71	Realâ€time monitoring of intracellular calcium dynamic mobilization of a single cardiomyocyte in a microfluidic chip pertaining to drug discovery. Electrophoresis, 2007, 28, 4723-4733.	1.3	49
72	Spiral microchannels on a CD for DNA hybridizations. Sensors and Actuators B: Chemical, 2007, 128, 64-69.	4.0	37

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73	Contraction Study of a Single Cardiac Muscle Cell in a Microfluidic Chip. , 2006, 321, 199-226.		9
74	Ultrasonic acoustic wave detection of single or capillary electrophoretically resolved underivatized amino acids. Analytica Chimica Acta, 2006, 572, 39-46.	2.6	2
75	Evaluation of thin films of agarose on glass for hybridization of DNA to identify plant pathogens with microarray technology. Analytical Biochemistry, 2005, 342, 93-102.	1.1	21
76	Extraction of pure cellular fluorescence by cell scanning in a single-cell microchip. Lab on A Chip, 2005, 5, 1298.	3.1	12
77	Microfluidic Selection and Retention of a Single Cardiac Myocyte, On-Chip Dye Loading, Cell Contraction by Chemical Stimulation, and Quantitative Fluorescent Analysis of Intracellular Calcium. Analytical Chemistry, 2005, 77, 4315-4322.	3.2	78
78	Chemical analysis of raw, dry-roasted, and honey-roasted licorice by capillary electrophoresis. Electrophoresis, 2004, 25, 3434-3440.	1.3	40
79	Gas chromatography-mass spectrometry determination of matrine in human plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 808, 209-214.	1.2	38
80	Separation of fluorescent derivatives of hydroxyl-containing small molecules on a microfluidic chip. Analytica Chimica Acta, 2004, 507, 107-114.	2.6	21
81	Transport, retention and fluorescent measurement of single biological cells studied in microfluidic chipsElectronic supplementary information (ESI) available: movie clip of cell retention. See http://www.rsc.org/suppdata/lc/b4/b400770k/. Lab on A Chip, 2004, 4, 174.	3.1	56
82	A Three-Dimensional Flow Control Concept for Single-Cell Experiments on a Microchip. 1. Cell Selection, Cell Retention, Cell Culture, Cell Balancing, and Cell Scanning. Analytical Chemistry, 2004, 76, 5273-5281.	3.2	52
83	Capillary Electrophoretic Method for Determination of Matrine in Cacoâ€2 Cell Medium. Journal of Liquid Chromatography and Related Technologies, 2004, 27, 2861-2870.	0.5	2
84	A Three-Dimensional Flow Control Concept for Single-Cell Experiments on a Microchip. 2. Fluorescein Diacetate Metabolism and Calcium Mobilization in a Single Yeast Cell As Stimulated by Glucose and pH Changes. Analytical Chemistry, 2004, 76, 5282-5292.	3.2	30
85	Electronic concentration of negatively-charged molecules on a microfabricated biochip. Analytica Chimica Acta, 2003, 484, 1-14.	2.6	5
86	Acoustic wave detection of chemical species electrokinetically transported within a capillary tube. Analyst, The, 2003, 128, 706.	1.7	1
87	An acoustic wave sensor incorporated with a microfluidic chip for analyzing muscle cell contraction. Analyst, The, 2003, 128, 225-231.	1.7	44
88	Diazinon and Its Degradation Products in Agricultural Water Courses in British Columbia, Canada. Bulletin of Environmental Contamination and Toxicology, 2002, 69, 59-65.	1.3	19
89	A capillary zone electrophoretic method for the study of formation of a covalent conjugate between microcystin LR and protein phosphatase 2A. Analyst, The, 2001, 126, 1001-1004.	1.7	7
90	Microfluidic Biochip Integrated with Acoustic Wave Sensor for Single Heart Muscle Cell Analysis. , 2001, , 295-296.		0

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91	<title>Micromachined muscle cell analysis chip</title>. , 2000, , .		1
92	Micellar electrokinetic capillary chromatographic separation and fluorescent detection of amino acids derivatized with 4-fluoro-7-nitro-2,1,3-benzoxadiazole. Journal of Chromatography A, 2000, 876, 183-191.	1.8	49
93	Capillary electrophoretic separation enhanced by a macrocyclic dioxopolyamine additive. Journal of Chromatography A, 1999, 844, 439-446.	1.8	17
94	Development of a Capillary Zone Electrophoretic Method for the Rapid Separation and Detection of Hepatotoxic Microcystins. Marine Pollution Bulletin, 1999, 39, 250-254.	2.3	27
95	Transport, Manipulation, and Reaction of Biological Cells On-Chip Using Electrokinetic Effects. Analytical Chemistry, 1997, 69, 1564-1568.	3.2	407
96	Water-instigated changes in elastic modulus of polypyrrole studied by thin rod acoustic wave sensor. Analytica Chimica Acta, 1997, 353, 255-262.	2.6	2
97	Mass Sensitivity of the Thin-Rod Acoustic Wave Sensor Operated in Flexural and Extensional Modes. Analytical Chemistry, 1996, 68, 2590-2597.	3.2	9
98	Mass sensitivity of the tube acoustic wave sensor in the extensional mode. Analytica Chimica Acta, 1996, 336, 13-21.	2.6	7
99	Carbon dioxide recognition by rhodium(I) complexes studied by infrared and nuclear magnetic resonance spectroscopies and acoustic wave sensor. Analyst, The, 1995, 120, 2529.	1.7	1
100	Potential carbon dioxide sensing based on recognition by trans-[carbonylhydroxybis-(triphenylphosphine)rhodium(I)] deposited on acoustic wave devices. Analyst, The, 1994, 119, 1947.	1.7	5
101	Flexural thin-rod acoustic wave devices as chemical sensors. Analytical Chemistry, 1993, 65, 2177-2180.	3.2	7