

Christopher T Culbertson

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5666070/christopher-t-culbertson-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

4,183
citations

29
h-index

64
g-index

70
ext. papers

4,499
ext. citations

6
avg, IF

5.17
L-index

#	Paper	IF	Citations
67	Optical biosensing of markers of mucosal inflammation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 40, 102476	6	2
66	Measuring stimulation and inhibition of intracellular nitric oxide production in SIM-A9 microglia using microfluidic single-cell analysis. <i>Analytical Methods</i> , 2020 , 12, 4665-4673	3.2	4
65	Microelectrophoretic single-cell measurements with microfluidic devices. <i>Methods in Enzymology</i> , 2019 , 628, 223-241	1.7	1
64	Fabrication of Glass Microfluidic Devices. <i>Methods in Molecular Biology</i> , 2019 , 1906, 1-12	1.4	1
63	Cellular Analysis Using Microfluidics. <i>Analytical Chemistry</i> , 2018 , 90, 65-85	7.8	35
62	Early detection of pancreatic cancers in liquid biopsies by ultrasensitive fluorescence nanobiosensors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1823-1832	6	13
61	Effects of storage temperature on airway exosome integrity for diagnostic and functional analyses. <i>Journal of Extracellular Vesicles</i> , 2017 , 6, 1359478	16.4	125
60	Out-of-plane integration of a multimode optical fiber for single particle/cell detection at multiple points on a microfluidic device with applications to particle/cell counting, velocimetry, size discrimination and the analysis of single cell lysate injections. <i>Lab on A Chip</i> , 2016 , 17, 145-155	7.2	10
59	Integrating Optical Fiber Bridges in Microfluidic Devices to Create Multiple Excitation/Detection Points for Single Cell Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 9920-9925	7.8	10
58	Micro Total Analysis Systems: Fundamental Advances and Applications. <i>Analytical Chemistry</i> , 2016 , 88, 320-38	7.8	77
57	High-throughput microfluidic device for single cell analysis using multiple integrated soft lithographic pumps. <i>Electrophoresis</i> , 2016 , 37, 1337-44	3.6	14
56	Integration of a nanostructured dielectrophoretic device and a surface-enhanced Raman probe for highly sensitive rapid bacteria detection. <i>Nanoscale</i> , 2015 , 7, 3726-36	7.7	56
55	Micro total analysis systems: fundamental advances and biological applications. <i>Analytical Chemistry</i> , 2014 , 86, 95-118	7.8	142
54	An integrated microfluidic device for monitoring changes in nitric oxide production in single T-lymphocyte (Jurkat) cells. <i>Analytical Chemistry</i> , 2013 , 85, 10188-95	7.8	37
53	Manipulation of bacteriophages with dielectrophoresis on carbon nanofiber nanoelectrode arrays. <i>Electrophoresis</i> , 2013 , 34, 1123-30	3.6	24
52	Monitoring intracellular nitric oxide production using microchip electrophoresis and laser-induced fluorescence detection. <i>Analytical Methods</i> , 2012 , 4, 414	3.2	27
51	Integrated microfluidic device for the separation and electrochemical detection of catechol estrogen-derived DNA adducts. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 519-24	4.4	10

50	Dielectrophoretic capture of <i>E. coli</i> cells at micropatterned nanoelectrode arrays. <i>Electrophoresis</i> , 2011 , 32, 2358-65	3.6	14
49	Paper-based microfluidic devices for analysis of clinically relevant analytes present in urine and saliva. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1821-9	4.4	210
48	Electrokinetic trapping using titania nanoporous membranes fabricated using sol-gel chemistry on microfluidic devices. <i>Electrophoresis</i> , 2009 , 30, 3160-7	3.6	25
47	Synthesis and characterization of a poly(dimethylsiloxane)-poly(ethylene oxide) block copolymer for fabrication of amphiphilic surfaces on microfluidic devices. <i>Langmuir</i> , 2009 , 25, 10390-6	4	21
46	Single-molecule studies of oligomer extraction and uptake of dyes in poly(dimethylsiloxane) films. <i>Analytical Chemistry</i> , 2009 , 81, 10089-96	7.8	12
45	Generation of nonbiased hydrodynamic injections on microfluidic devices using integrated dielectric elastomer actuators. <i>Analytical Chemistry</i> , 2009 , 81, 8942-8	7.8	19
44	Demonstration of an integrated electroactive polymer actuator on a microfluidic electrophoresis device. <i>Lab on A Chip</i> , 2009 , 9, 2076-84	7.2	18
43	Single molecule studies of solvent-dependent diffusion and entrapment in poly(dimethylsiloxane) thin films. <i>Analytical Chemistry</i> , 2008 , 80, 9726-34	7.8	4
42	A novel, environmentally friendly sodium lauryl ether sulfate-, cocamidopropyl betaine-, cocamide monoethanolamine-containing buffer for MEKC on microfluidic devices. <i>Electrophoresis</i> , 2008 , 29, 4900-3	3.6	8
41	Chemical analysis of single mammalian cells with microfluidics. Strategies for culturing, sorting, trapping, and lysing cells and separating their contents on chips. <i>Analytical Chemistry</i> , 2007 , 79, 2614-21	7.8	50
40	Single-cell manipulation and analysis using microfluidic devices. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 9-12	4.4	80
39	Micellar electrokinetic chromatography of fluorescently labeled proteins on poly(dimethylsiloxane)-based microchips. <i>Electrophoresis</i> , 2006 , 27, 2933-9	3.6	21
38	Single cell analysis on microfluidic devices. <i>Methods in Molecular Biology</i> , 2006 , 339, 203-16	1.4	6
37	The effect of photomask resolution on separation efficiency on microfabricated devices. <i>Lab on A Chip</i> , 2006 , 6, 1355-61	7.2	7
36	Surface engineering of poly(dimethylsiloxane) microfluidic devices using transition metal sol-gel chemistry. <i>Langmuir</i> , 2006 , 22, 4445-51	4	103
35	High efficiency micellar electrokinetic chromatography of hydrophobic analytes on poly(dimethylsiloxane) microchips. <i>Analyt. The</i> , 2006 , 131, 194-201	5	58
34	Static and dynamic acute cytotoxicity assays on microfluidic devices. <i>Analytical Chemistry</i> , 2005 , 77, 667-72	7.2	31
33	Sol-gel modified poly(dimethylsiloxane) microfluidic devices with high electroosmotic mobilities and hydrophilic channel wall characteristics. <i>Analytical Chemistry</i> , 2005 , 77, 1414-22	7.8	181

32	Microchip separations in reduced-gravity and hypergravity environments. <i>Analytical Chemistry</i> , 2005 , 77, 7933-40	7.8	29
31	Effects of Microfabrication Processing on the Electrochemistry of Carbon Nanofiber Electrodes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 10722-10728	3.4	27
30	Microfluidic devices for the high-throughput chemical analysis of cells. <i>Analytical Chemistry</i> , 2003 , 75, 5646-55	7.8	309
29	High-efficiency, two-dimensional separations of protein digests on microfluidic devices. <i>Analytical Chemistry</i> , 2003 , 75, 3758-64	7.8	178
28	Diffusion coefficient measurements in microfluidic devices. <i>Talanta</i> , 2002 , 56, 365-73	6.2	353
27	High Performance Two Dimensional Separations of Tryptic Digests on Microfluidic Devices 2002 , 608-610		2
26	Two-dimensional electrochromatography/capillary electrophoresis on a microchip. <i>Analytical Chemistry</i> , 2001 , 73, 2669-74	7.8	186
25	Flow cytometry of Escherichia coli on microfluidic devices. <i>Analytical Chemistry</i> , 2001 , 73, 5334-8	7.8	205
24	Electroosmotically induced hydraulic pumping with integrated electrodes on microfluidic devices. <i>Analytical Chemistry</i> , 2001 , 73, 4045-9	7.8	116
23	Rapid Cellular Assays on Microfabricated Fluidic Devices 2001 , 285-286		2
22	Single Cell Lysis on Microfluidic Devices 2001 , 301-302		3
21	Electroosmotically Induced Hydraulic Pumping on Microchips 2001 , 131-132		2
20	Effects of the electric field distribution on microchip valving performance. <i>Electrophoresis</i> , 2000 , 21, 100-6	3.6	74
19	Electrophoretic separation of proteins on microchips. <i>Journal of Separation Science</i> , 2000 , 12, 407-411		17
18	Integrated microchip-device for the digestion, separation and postcolumn labeling of proteins and peptides. <i>Biomedical Applications</i> , 2000 , 745, 243-9		66
17	Electroosmotically induced hydraulic pumping on microchips: differential ion transport. <i>Analytical Chemistry</i> , 2000 , 72, 2285-91	7.8	102
16	Microchip devices for high-efficiency separations. <i>Analytical Chemistry</i> , 2000 , 72, 5814-9	7.8	172
15	Microfabricated Fluidic Devices for Cellular Assays 2000 , 107-110		

14	Microfabricated Intrachannel Electrical Contacts for Material Transport Control 2000 , 213-216		2
13	High Efficiency Separations on Microchip Devices 2000 , 221-224		1
12	Increasing the resolving power of capillary electrophoresis through electroosmotic flow control using radial fields. <i>Journal of Separation Science</i> , 1999 , 11, 167-174		14
11	Separation of fluorescently derivatized deuterated isotopomers of phenylalanine using micellar electrokinetic chromatography and flow counterbalanced micellar electrokinetic chromatography. <i>Journal of Separation Science</i> , 1999 , 11, 175-183		4
10	Lowering the UV absorbance detection limit and increasing the sensitivity of capillary electrophoresis using a dual linear photodiode array detector and signal averaging. <i>Journal of Separation Science</i> , 1999 , 11, 652-662		9
9	Microchip flow cytometry using electrokinetic focusing. <i>Analytical Chemistry</i> , 1999 , 71, 4173-7	7.8	180
8	Microchip Structures for Submillisecond Electrophoresis. <i>Analytical Chemistry</i> , 1998 , 70, 3476-3480	7.8	271
7	Lowering the UV Absorbance Detection Limit in Capillary Zone Electrophoresis Using a Single Linear Photodiode Array Detector. <i>Analytical Chemistry</i> , 1998 , 70, 2629-38	7.8	30
6	Dispersion Sources for Compact Geometries on Microchips. <i>Analytical Chemistry</i> , 1998 , 70, 3781-3789	7.8	167
5	Rapid Electrophoretic and Chromatographic Analysis on Microchips 1998 , 315-318		0
4	Minimizing Dispersion Introduced by Turns on Microchips 1998 , 161-164		
3	Synthesis and Photophysical Properties of Mono(2,2',2''-terpyridine) Complexes of Ruthenium(II). <i>Inorganic Chemistry</i> , 1995 , 34, 3385-3395	5.1	88
2	. <i>Analytical Chemistry</i> , 1994 , 66, 955-962	7.8	98
1	Synthesis and pharmacology of irreversible affinity labels as potential cocaine antagonists: aryl 1,4-dialkylpiperazines related to GBR-12783. <i>European Journal of Pharmacology</i> , 1992 , 220, 173-80	5.3	20