

D Jed Harrison

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Sample Preparation in Centrifugal Microfluidic Discs for Human Serum Metabolite Analysis by Surface Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 7570-7577.	6.5	17
2	Fabrication of Rugged and Reliable Fluidic Chips for Autonomous Environmental Analyzers Using Combined Thermal and Pressure Bonding of Polymethyl Methacrylate Layers. <i>ACS Omega</i> , 2019, 4, 21131-21140.	3.5	5
3	A single-phase flow microfluidic cell sorter for multiparameter screening to assist the directed evolution of Ca ²⁺ sensors. <i>Lab on A Chip</i> , 2019, 19, 3880-3887.	6.0	7
4	Inverse-response Ca ²⁺ indicators for optogenetic visualization of neuronal inhibition. <i>Scientific Reports</i> , 2018, 8, 11758.	3.3	8
5	Engineering matrix-free laser desorption ionization mass spectrometry using glancing angle deposition films. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 631-638.	1.5	10
6	Salt Segregation and Sample Cleanup on Perfluoro-Coated Nanostructured Surfaces for Laser Desorption Ionization Mass Spectrometry of Biofluid Samples. <i>Analytical Chemistry</i> , 2017, 89, 3362-3369.	6.5	8
7	Evaluation of protein separation mechanism and pore size distribution in colloidal self-assembled nanoparticle sieves for on-chip protein sizing. <i>Electrophoresis</i> , 2017, 38, 342-349.	2.4	8
8	Size-based proteins separation using polymer-entrapped colloidal self-assembled nanoparticles on-chip. <i>Electrophoresis</i> , 2016, 37, 2602-2609.	2.4	10
9	A regenerating ultrasensitive electrochemical impedance immunosensor for the detection of adenovirus. <i>Biosensors and Bioelectronics</i> , 2015, 68, 129-134.	10.1	47
10	A regenerating self-assembled gold nanoparticle-containing electrochemical impedance sensor. <i>Biosensors and Bioelectronics</i> , 2014, 56, 328-333.	10.1	24
11	Bright and fast multicoloured voltage reporters via electrochromic FRET. <i>Nature Communications</i> , 2014, 5, 4625.	12.8	175
12	All-optical electrophysiology in mammalian neurons using engineered microbial rhodopsins. <i>Nature Methods</i> , 2014, 11, 825-833.	19.0	666
13	A personal stroll through the historical development of Canadian microfluidics. <i>Lab on A Chip</i> , 2013, 13, 2500.	6.0	1
14	Matrix-free laser desorption/ionization mass spectrometry using silicon glancing angle deposition (GLAD) films. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2305-2311.	1.5	11
15	Measurement of flow in microfluidic networks with micrometer-sized flow restrictors. <i>AIChE Journal</i> , 2006, 52, 75-85.	3.6	15
16	Design of an interface to allow microfluidic electrophoresis chips to drink from the fire hose of the external environment. <i>Electrophoresis</i> , 2001, 22, 318-327.	2.4	101
17	An evaluation of the detection limits possible for competitive capillary electrophoretic immunoassays. <i>Electrophoresis</i> , 2001, 22, 3699-3708.	2.4	34
18	Integrated system for high-throughput protein identification using a microfabricated device coupled to capillary electrophoresis / nanoelectrospray mass spectrometry. <i>Proteomics</i> , 2001, 1, 975-986.	2.2	40

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19	Integrated system for high-throughput protein identification using a microfabricated device coupled to capillary electrophoresis / nanoelectrospray mass spectrometry. <i>Proteomics</i> , 2001, 1, 975-986.	2.2	3
20	Electrokinetic control of fluid flow in native poly(dimethylsiloxane) capillary electrophoresis devices. <i>Electrophoresis</i> , 2000, 21, 107-115.	2.4	320
21	Rapid and sensitive separation of trace level protein digests using microfabricated devices coupled to a quadrupole - time-of-flight mass spectrometer. <i>Electrophoresis</i> , 2000, 21, 198-210.	2.4	107
22	A multireflection cell for enhanced absorbance detection in microchip-based capillary electrophoresis devices. <i>Electrophoresis</i> , 2000, 21, 1291-1299.	2.4	136
23	Construction and evaluation of a capillary array DNA sequencer based on a micromachined sheath-flow cuvette. <i>Electrophoresis</i> , 2000, 21, 1329-1335.	2.4	50
24	Integration of immobilized trypsin bead beds for protein digestion within a microfluidic chip incorporating capillary electrophoresis separations and an electrospray mass spectrometry interface. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1377-1383.	1.5	200
25	mRNA isolation in a microfluidic device for eventual integration of cDNA library construction. <i>Analyst</i> , The, 2000, 125, 2176-2179.	3.5	102
26	Electrokinetic control of fluid flow in native poly(dimethylsiloxane) capillary electrophoresis devices. , 2000, 21, 107.		1
27	Effects of injector geometry and sample matrix on injection and sample loading in integrated capillary electrophoresis devices. <i>Electrophoresis</i> , 1999, 20, 529-538.	2.4	117
28	Microfluidic Devices Connected to Fused-Silica Capillaries with Minimal Dead Volume. <i>Analytical Chemistry</i> , 1999, 71, 3292-3296.	6.5	207
29	Chemiluminescence detection in integrated post-separation reactors for microchip-based capillary electrophoresis and affinity electrophoresis. <i>Electrophoresis</i> , 1998, 19, 2301-2307.	2.4	122
30	Monoclonal antibody binding affinity determined by microchip-based capillary electrophoresis. <i>Electrophoresis</i> , 1998, 19, 3040-3044.	2.4	102
31	Microchip systems for immunoassay: an integrated immunoreactor with electrophoretic separation for serum theophylline determination. <i>Clinical Chemistry</i> , 1998, 44, 591-598.	3.2	268
32	Electroosmotic Pumping of Organic Solvents and Reagents in Microfabricated Reactor Chips. <i>Journal of the American Chemical Society</i> , 1997, 119, 8716-8717.	13.7	144
33	Microchip-Based Capillary Electrophoresis for Immunoassays:Â Analysis of Monoclonal Antibodies and Theophylline. <i>Analytical Chemistry</i> , 1997, 69, 373-378.	6.5	398
34	Transport, Manipulation, and Reaction of Biological Cells On-Chip Using Electrokinetic Effects. <i>Analytical Chemistry</i> , 1997, 69, 1564-1568.	6.5	407
35	Clinical potential of microchip capillary electrophoresis systems. <i>Electrophoresis</i> , 1997, 18, 1733-1741.	2.4	164
36	Microfabrication of a Planar Absorbance and Fluorescence Cell for Integrated Capillary Electrophoresis Devices. <i>Analytical Chemistry</i> , 1996, 68, 1040-1046.	6.5	210

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37	Comparison of Numerical Modeling of Water Uptake in Poly(vinyl chloride)-Based Ion-Selective Membranes with Experiment. <i>Analytical Chemistry</i> , 1996, 68, 1726-1734.	6.5	44
38	Dual-Sorption Model of Water Uptake in Poly(vinyl chloride)-Based Ion-Selective Membranes:Â Experimental Water Concentration and Transport Parameters. <i>Analytical Chemistry</i> , 1996, 68, 1717-1725.	6.5	87
39	Integrated Capillary Electrophoresis Devices with an Efficient Postcolumn Reactor in Planar Quartz and Glass Chips. <i>Analytical Chemistry</i> , 1996, 68, 4285-4290.	6.5	185
40	Multilayered Coatings of Perfluorinated Ionomer Membranes and Poly(phenylenediamine) for the Protection of Glucose Sensors In Vivo. <i>ACS Symposium Series</i> , 1994, , 255-263.	0.5	4
41	Chemically Sensitive Interfaces. <i>ACS Symposium Series</i> , 1994, , 1-14.	0.5	1
42	Ion pairing and acid dissociation constants in poly(vinyl chloride)-based ion-selective electrode membranes. <i>Electroanalysis</i> , 1993, 5, 845-854.	2.9	26
43	Miniaturization of separation techniques using planar chip technology. <i>Journal of High Resolution Chromatography</i> , 1993, 16, 433-436.	1.4	43
44	Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip. <i>Science</i> , 1993, 261, 895-897.	12.6	1,749
45	Water and the Ion-Selective Electrode Membrane. <i>ACS Symposium Series</i> , 1992, , 292-300.	0.5	5
46	Enhanced Lifetime and Adhesion of K^+ , NH_4^+ , and Ca^{2+} Sensitive Membranes on Solid Surfaces Using Hydroxylâ€ Modified Polyvinylchloride Matrices. <i>Journal of the Electrochemical Society</i> , 1988, 135, 2473-2478.	2.9	49