

Aaron R Wheeler

List of Publications by Year in descending order

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148
papers

12,481
citations

16411

64
h-index

24915

109
g-index

153
all docs

153
docs citations

153
times ranked

10222
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital Microfluidics. <i>Annual Review of Analytical Chemistry</i> , 2012, 5, 413-440.	2.8	664
2	Microfluidic Device for Single-Cell Analysis. <i>Analytical Chemistry</i> , 2003, 75, 3581-3586.	3.2	545
3	Biodegradable scaffold with built-in vasculature for organ-on-a-chip engineering and direct surgical anastomosis. <i>Nature Materials</i> , 2016, 15, 669-678.	13.3	471
4	The Digital Revolution: A New Paradigm for Microfluidics. <i>Advanced Materials</i> , 2009, 21, 920-925.	11.1	365
5	Bio-Microarray Fabrication Techniques—A Review. <i>Critical Reviews in Biotechnology</i> , 2006, 26, 237-259.	5.1	334
6	A microfluidic platform for complete mammalian cell culture. <i>Lab on A Chip</i> , 2010, 10, 1536.	3.1	326
7	Putting Electrowetting to Work. <i>Science</i> , 2008, 322, 539-540.	6.0	324
8	Immunoassays in microfluidic systems. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 991-1007.	1.9	307
9	Digital Microfluidics with In-Line Sample Purification for Proteomics Analyses with MALDI-MS. <i>Analytical Chemistry</i> , 2005, 77, 534-540.	3.2	301
10	Electrowetting-Based Microfluidics for Analysis of Peptides and Proteins by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 4833-4838.	3.2	295
11	Digital microfluidics for cell-based assays. <i>Lab on A Chip</i> , 2008, 8, 519.	3.1	292
12	Electrochemistry, biosensors and microfluidics: a convergence of fields. <i>Chemical Society Reviews</i> , 2015, 44, 5320-5340.	18.7	279
13	An integrated digital microfluidic chip for multiplexed proteomic sample preparation and analysis by MALDI-MS. <i>Lab on A Chip</i> , 2006, 6, 1213.	3.1	266
14	Pluronic Additives: A Solution to Sticky Problems in Digital Microfluidics. <i>Langmuir</i> , 2008, 24, 6382-6389.	1.6	242
15	Chemical cytometry on a picoliter-scale integrated microfluidic chip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12809-12813.	3.3	232
16	Droplet-based microfluidics with nonaqueous solvents and solutions. <i>Lab on A Chip</i> , 2006, 6, 199.	3.1	220
17	DropBot: An open-source digital microfluidic control system with precise control of electrostatic driving force and instantaneous drop velocity measurement. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	173
18	Digital Microfluidic Magnetic Separation for Particle-Based Immunoassays. <i>Analytical Chemistry</i> , 2012, 84, 8805-8812.	3.2	167

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19	All-terrain droplet actuation. <i>Lab on A Chip</i> , 2008, 8, 672.	3.1	158
20	DStat: A Versatile, Open-Source Potentiostat for Electroanalysis and Integration. <i>PLoS ONE</i> , 2015, 10, e0140349.	1.1	157
21	Integrated microbioreactor for culture and analysis of bacteria, algae and yeast. <i>Biomedical Microdevices</i> , 2011, 13, 41-50.	1.4	154
22	A Digital Microfluidic Approach to Homogeneous Enzyme Assays. <i>Analytical Chemistry</i> , 2008, 80, 1614-1619.	3.2	151
23	A circular cross-section PDMS microfluidics system for replication of cardiovascular flow conditions. <i>Biomaterials</i> , 2010, 31, 3459-3464.	5.7	143
24	Matrix-dependent adhesion of vascular and valvular endothelial cells in microfluidic channels. <i>Lab on A Chip</i> , 2007, 7, 1759.	3.1	139
25	Maze exploration and learning in <i>C. elegans</i> . <i>Lab on A Chip</i> , 2007, 7, 186-192.	3.1	134
26	Automated Digital Microfluidic Platform for Magnetic-Particle-Based Immunoassays with Optimization by Design of Experiments. <i>Analytical Chemistry</i> , 2013, 85, 9638-9646.	3.2	127
27	A 3D microfluidic platform incorporating methacrylated gelatin hydrogels to study physiological cardiovascular cell-cell interactions. <i>Lab on A Chip</i> , 2013, 13, 2591.	3.1	126
28	Hepatic organoids for microfluidic drug screening. <i>Lab on A Chip</i> , 2014, 14, 3290.	3.1	126
29	Proteome-on-a-chip: Mirage, or on the horizon?. <i>Lab on A Chip</i> , 2006, 6, 1415.	3.1	121
30	A digital microfluidic system for serological immunoassays in remote settings. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	117
31	Hybrid microfluidics: A digital-to-channel interface for in-line sample processing and chemical separations. <i>Lab on A Chip</i> , 2009, 9, 1046.	3.1	111
32	Dried Blood Spot Analysis by Digital Microfluidics Coupled to Nanoelectrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 3731-3738.	3.2	109
33	Paper Microfluidics Goes Digital. <i>Advanced Materials</i> , 2014, 26, 2838-2843.	11.1	109
34	Low-cost, rapid-prototyping of digital microfluidics devices. <i>Microfluidics and Nanofluidics</i> , 2008, 4, 349-355.	1.0	108
35	A digital microfluidic electrochemical immunoassay. <i>Lab on A Chip</i> , 2014, 14, 547-554.	3.1	106
36	A digital microfluidic method for dried blood spot analysis. <i>Lab on A Chip</i> , 2011, 11, 3218.	3.1	104

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37	Digital microfluidics with impedance sensing for integrated cell culture and analysis. <i>Biosensors and Bioelectronics</i> , 2013, 42, 314-320.	5.3	101
38	Digital microfluidic immunocytochemistry in single cells. <i>Nature Communications</i> , 2015, 6, 7513.	5.8	98
39	A Digital Microfluidic Approach to Proteomic Sample Processing. <i>Analytical Chemistry</i> , 2009, 81, 4524-4530.	3.2	97
40	Digital Microfluidic Method for Protein Extraction by Precipitation. <i>Analytical Chemistry</i> , 2009, 81, 330-335.	3.2	95
41	A New Angle on Pluronic Additives: Advancing Droplets and Understanding in Digital Microfluidics. <i>Langmuir</i> , 2011, 27, 8586-8594.	1.6	95
42	Let's get digital: digitizing chemical biology with microfluidics. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 574-581.	2.8	94
43	Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8625-8629.	7.2	92
44	Rapid Prototyping in Copper Substrates for Digital Microfluidics. <i>Advanced Materials</i> , 2007, 19, 133-137.	11.1	91
45	A digital microfluidic method for multiplexed cell-based apoptosis assays. <i>Lab on A Chip</i> , 2012, 12, 627-634.	3.1	90
46	A digital microfluidic platform for primary cell culture and analysis. <i>Lab on A Chip</i> , 2012, 12, 369-375.	3.1	89
47	Droplet-Scale Estrogen Assays in Breast Tissue, Blood, and Serum. <i>Science Translational Medicine</i> , 2009, 1, 1ra2.	5.8	88
48	An inkjet printed, roll-coated digital microfluidic device for inexpensive, miniaturized diagnostic assays. <i>Lab on A Chip</i> , 2016, 16, 4560-4568.	3.1	88
49	Technique for Real-Time Measurements of Endothelial Permeability in a Microfluidic Membrane Chip Using Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2010, 82, 808-816.	3.2	86
50	A feedback control system for high-fidelity digital microfluidics. <i>Lab on A Chip</i> , 2011, 11, 535-540.	3.1	86
51	Digital microfluidic isolation of single cells for -Omics. <i>Nature Communications</i> , 2020, 11, 5632.	5.8	85
52	Microgels on-demand. <i>Nature Communications</i> , 2014, 5, 3355.	5.8	80
53	Programmable modification of cell adhesion and zeta potential in silica microchips. <i>Lab on A Chip</i> , 2003, 3, 5.	3.1	79
54	The optoelectronic microrobot: A versatile toolbox for micromanipulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14823-14828.	3.3	79

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55	Flow Injection Analysis in a Microfluidic Format. <i>Analytical Chemistry</i> , 2003, 75, 967-972.	3.2	78
56	Virtual microwells for digital microfluidic reagent dispensing and cell culture. <i>Lab on A Chip</i> , 2012, 12, 750-757.	3.1	75
57	Soft lithography: masters on demand. <i>Lab on A Chip</i> , 2008, 8, 1379.	3.1	72
58	A World-to-Chip Interface for Digital Microfluidics. <i>Analytical Chemistry</i> , 2009, 81, 1061-1067.	3.2	72
59	Optimization of device geometry in single-plate digital microfluidics. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	71
60	A digital microfluidic approach to heterogeneous immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 337-345.	1.9	70
61	Electrochemiluminescence on digital microfluidics for microRNA analysis. <i>Biosensors and Bioelectronics</i> , 2016, 77, 845-852.	5.3	69
62	Digital bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 419-426.	1.9	68
63	Analysis on the Go: Quantitation of Drugs of Abuse in Dried Urine with Digital Microfluidics and Miniature Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 6121-6129.	3.2	67
64	Upon the Shoulders of Giants: Open-Source Hardware and Software in Analytical Chemistry. <i>Analytical Chemistry</i> , 2017, 89, 4330-4338.	3.2	67
65	Digital Microfluidic Cell Culture. <i>Annual Review of Biomedical Engineering</i> , 2015, 17, 91-112.	5.7	65
66	Digital Microfluidics: An Emerging Sample Preparation Platform for Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 6178-6184.	3.2	64
67	Digital microfluidic hydrogel microreactors for proteomics. <i>Proteomics</i> , 2012, 12, 1310-1318.	1.3	63
68	A Digital Microfluidic Method for in Situ Formation of Porous Polymer Monoliths with Application to Solid-Phase Extraction. <i>Analytical Chemistry</i> , 2011, 83, 3824-3830.	3.2	59
69	A microfluidic membrane device to mimic critical components of the vascular microenvironment. <i>Biomicrofluidics</i> , 2011, 5, 13409.	1.2	59
70	A digital microfluidic device with integrated nanostructured microelectrodes for electrochemical immunoassays. <i>Lab on A Chip</i> , 2015, 15, 3776-3784.	3.1	58
71	Multilayer Hybrid Microfluidics: A Digital-to-Channel Interface for Sample Processing and Separations. <i>Analytical Chemistry</i> , 2010, 82, 6680-6686.	3.2	55
72	Digital Microfluidic Platform for the Detection of Rubella Infection and Immunity: A Proof of Concept. <i>Clinical Chemistry</i> , 2015, 61, 420-429.	1.5	55

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73	Microfluidic origami: a new device format for in-line reaction monitoring by nanoelectrospray ionization mass spectrometry. <i>Lab on A Chip</i> , 2013, 13, 2533.	3.1	54
74	Integrated Digital Microfluidic Platform for Voltammetric Analysis. <i>Analytical Chemistry</i> , 2013, 85, 8809-8816.	3.2	48
75	A droplet-based screen for wavelength-dependent lipid production in algae. <i>Energy and Environmental Science</i> , 2014, 7, 2366.	15.6	48
76	Digital Microfluidic Platform for Human Plasma Protein Depletion. <i>Analytical Chemistry</i> , 2014, 86, 8466-8472.	3.2	46
77	Direct loading of blood for plasma separation and diagnostic assays on a digital microfluidic device. <i>Lab on A Chip</i> , 2020, 20, 1845-1855.	3.1	43
78	Interfacing digital microfluidics with high-field nuclear magnetic resonance spectroscopy. <i>Lab on A Chip</i> , 2016, 16, 4424-4435.	3.1	42
79	Printed Microfluidics. <i>Advanced Functional Materials</i> , 2017, 27, 1604824.	7.8	41
80	Patterned Optoelectronic Tweezers: A New Scheme for Selecting, Moving, and Storing Dielectric Particles and Cells. <i>Small</i> , 2018, 14, e1803342.	5.2	41
81	Reconfigurable multi-component micromachines driven by optoelectronic tweezers. <i>Nature Communications</i> , 2021, 12, 5349.	5.8	41
82	Digital microfluidics and nuclear magnetic resonance spectroscopy for <i>in situ</i> diffusion measurements and reaction monitoring. <i>Lab on A Chip</i> , 2019, 19, 641-653.	3.1	39
83	Microcontact Printing-Based Fabrication of Digital Microfluidic Devices. <i>Analytical Chemistry</i> , 2006, 78, 7877-7885.	3.2	37
84	Durable, region-specific protein patterning in microfluidic channels. <i>Biomaterials</i> , 2010, 31, 315-320.	5.7	36
85	Hydrogel discs for digital microfluidics. <i>Biomicrofluidics</i> , 2012, 6, 14112-1411211.	1.2	36
86	“Plug-n-Play” Sensing with Digital Microfluidics. <i>Analytical Chemistry</i> , 2019, 91, 2506-2515.	3.2	35
87	A switchable digital microfluidic droplet dye-laser. <i>Lab on A Chip</i> , 2011, 11, 3716.	3.1	34
88	Digital Microfluidics for Immunoprecipitation. <i>Analytical Chemistry</i> , 2016, 88, 10223-10230.	3.2	33
89	Rapid Chemical Reaction Monitoring by Digital Microfluidics—NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15372-15376.	7.2	33
90	Ionotronics Based on Horizontally Aligned Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2020, 30, 2003177.	7.8	33

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91	Poly(dimethylsiloxane) microfluidic flow cells for surface plasmon resonance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 208-214.	4.0	32
92	Electroosmotic flow in a poly(dimethylsiloxane) channel does not depend on percent curing agent. <i>Electrophoresis</i> , 2004, 25, 1120-1124.	1.3	32
93	Flow of microgel capsules through topographically patterned microchannels. <i>Lab on A Chip</i> , 2007, 7, 863.	3.1	31
94	A practical interface for microfluidics and nanoelectrospray mass spectrometry. <i>Electrophoresis</i> , 2008, 29, 1836-1843.	1.3	31
95	Cellular bias on the microscale: probing the effects of digital microfluidic actuation on mammalian cell health, fitness and phenotype. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1014.	0.6	29
96	A digital microfluidic interface between solid-phase microextraction and liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1444, 1-7.	1.8	29
97	Combinatorial Synthesis of Peptidomimetics Using Digital Microfluidics. <i>Journal of Flow Chemistry</i> , 2012, 2, 103-107.	1.2	28
98	Multiplexed extraction and quantitative analysis of pharmaceuticals from DBS samples using digital microfluidics. <i>Bioanalysis</i> , 2014, 6, 307-318.	0.6	28
99	Pre-concentration by liquid intake by paper (P-CLIP): a new technique for large volumes and digital microfluidics. <i>Lab on A Chip</i> , 2017, 17, 2272-2280.	3.1	27
100	Towards a personalized approach to aromatase inhibitor therapy: a digital microfluidic platform for rapid analysis of estradiol in core-needle-biopsies. <i>Lab on A Chip</i> , 2017, 17, 1594-1602.	3.1	27
101	When robotics met fluidics. <i>Lab on A Chip</i> , 2020, 20, 709-716.	3.1	27
102	Attractive Design: An Elution Solvent Optimization Platform for Magnetic-Bead-based Fractionation Using Digital Microfluidics and Design of Experiments. <i>Analytical Chemistry</i> , 2015, 87, 3902-3910.	3.2	26
103	Dynamic Fluoroalkyl Polyethylene Glycol Co-polymers: A New Strategy for Reducing Protein Adhesion in Lab-on-a-Chip Devices. <i>Advanced Functional Materials</i> , 2015, 25, 506-515.	7.8	25
104	Velocity Saturation in Digital Microfluidics. <i>Langmuir</i> , 2019, 35, 5342-5352.	1.6	25
105	Cell invasion in digital microfluidic microgel systems. <i>Science Advances</i> , 2020, 6, eaba9589.	4.7	24
106	A guiding light: spectroscopy on digital microfluidic devices using in-plane optical fibre waveguides. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7467-7475.	1.9	23
107	A microfluidic method for dopamine uptake measurements in dopaminergic neurons. <i>Lab on A Chip</i> , 2016, 16, 543-552.	3.1	23
108	Bacterial classification and antibiotic susceptibility testing on an integrated microfluidic platform. <i>Lab on A Chip</i> , 2021, 21, 4208-4222.	3.1	23

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109	Digital Microfluidic Hemagglutination Assays for Blood Typing, Donor Compatibility Testing, and Hematocrit Analysis. <i>Clinical Chemistry</i> , 2021, 67, 1699-1708.	1.5	23
110	A Microfluidic Technique for Quantification of Steroids in Core Needle Biopsies. <i>Analytical Chemistry</i> , 2015, 87, 4688-4695.	3.2	21
111	Direct Interface between Digital Microfluidics and High Performance Liquid Chromatographyâ€“Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11967-11972.	3.2	20
112	Size-scaling effects for microparticles and cells manipulated by optoelectronic tweezers. <i>Optics Letters</i> , 2019, 44, 4171.	1.7	20
113	Escape from an Optoelectronic Tweezer Trap: experimental results and simulations. <i>Optics Express</i> , 2018, 26, 5300.	1.7	19
114	Ion-Exchange Based Immobilization of Chromogenic Reagents on Microfluidic Paper Analytical Devices. <i>Analytical Chemistry</i> , 2019, 91, 8756-8761.	3.2	19
115	Digital Microfluidics for Automated Proteomic Processing. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	17
116	Augmenting microgel flow viareceptor-ligand binding in the constrained geometries of microchannels. <i>Lab on A Chip</i> , 2009, 9, 286-290.	3.1	16
117	Folded emitters for nanoelectrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3425-3431.	0.7	16
118	Next-Generation Microfluidic Point-of-Care Diagnostics. <i>Clinical Chemistry</i> , 2015, 61, 1233-1234.	1.5	16
119	A microfluidic platform for continuous monitoring of dopamine homeostasis in dopaminergic cells. <i>Microsystems and Nanoengineering</i> , 2019, 5, 10.	3.4	16
120	A Digitalâ€“Channel Microfluidic Interface via Inkjet Printing of Silver and UV Curing of Thiolâ€“Enes. <i>Advanced Materials Technologies</i> , 2020, 5, 2000451.	3.0	16
121	Strong and small: strong cation-exchange solid-phase extractions using porous polymer monoliths on a digital microfluidic platform. <i>Canadian Journal of Chemistry</i> , 2014, 92, 179-185.	0.6	15
122	Understanding Carbon Nanotubeâ€“Based Ionic Diodes: Design and Mechanism. <i>Small</i> , 2021, 17, e2100383.	5.2	15
123	Portable sample processing for molecular assays: application to Zika virus diagnostics. <i>Lab on A Chip</i> , 2022, 22, 1748-1763.	3.1	15
124	Assembly of Topographical Micropatterns with Optoelectronic Tweezers. <i>Advanced Optical Materials</i> , 2019, 7, 1900669.	3.6	14
125	Interaction between positive and negative dielectric microparticles/microorganism in optoelectronic tweezers. <i>Lab on A Chip</i> , 2021, 21, 4379-4389.	3.1	13
126	Gradient Elution in Microchannel Electrochromatography. <i>Analytical Chemistry</i> , 2009, 81, 3851-3857.	3.2	12

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127	Integrated Assembly and Photopreservation of Topographical Micropatterns. <i>Small</i> , 2021, 17, e2103702.	5.2	12
128	Influence of light pattern thickness on the manipulation of dielectric microparticles by optoelectronic tweezers. <i>Photonics Research</i> , 0, , .	3.4	6
129	Analysis of the effects of aryl hydrocarbon receptor expression on cancer cell invasion via three-dimensional microfluidic invasion assays. <i>Lab on A Chip</i> , 2022, 22, 313-325.	3.1	6
130	Vertical Addressing of 1â€Plane Electrodes for Digital Microfluidics. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	6
131	Early Warning Measurement of SARS-CoV-2 Variants of Concern in Wastewaters by Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2022, 9, 638-644.	3.9	4
132	Rapid Chemical Reaction Monitoring by Digital Microfluidicsâ€NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie</i> , 2019, 131, 15516-15520.	1.6	3
133	Single Organelle Analysis with Integrated Chip Electrophoresis and Optical Tweezers. , 2000, , 25-28.		3
134	3D Droplet Actuation in Digital Microfluidics Devices. , 2007, , .		2
135	Mission impossible to mission control. <i>Lab on A Chip</i> , 2012, 12, 3851.	3.1	2
136	Integrated Assembly and Photopreservation of Topographical Micropatterns (<i>Small</i> 37/2021). <i>Small</i> , 2021, 17, 2170193.	5.2	2
137	Lab on a chip Canada â€“ rapid diffusion over large length scales. <i>Lab on A Chip</i> , 2013, 13, 2438.	3.1	1
138	Lab on a Chip â€“ past, present, and future. <i>Lab on A Chip</i> , 2021, 21, 1197-1198.	3.1	1
139	Autonomous object harvesting using synchronized optoelectronic microrobots. , 2021, , .		1
140	Innentitelbild: Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics (<i>Angew.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 TF	1.8	0
141	Inside Cover: Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics (<i>Angew.</i>) Tj ETQq1 1 0.784314 rgBT /Overlor	7.2	0
142	Intimidating yet Inspiring: Emerging Investigators special issue. <i>Lab on A Chip</i> , 2010, 10, 2321.	3.1	0
143	Virtual microwells for three-dimensional cell culture on a digital microfluidic platform. , 2012, , .		0
144	A digital microfluidic control system with precise control of electrostatic force and impedance-based velocity measurement. , 2013, , .		0

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145	Reply to the "Comment on "Towards a personalized approach to aromatase inhibitor therapy: a digital microfluidic platform for rapid analysis of estradiol in core-needle-biopsies"™ by P. E. Lanning, <i>Lab Chip</i>, 2017, 17, DOI: 10.1039/C7LC00617A. Lab on A Chip, 2017, 17, 3188-3189.	3.1	0
146	A Laser-Polymerized Thin Film Silica Surface Modification for Suppression of Cell Adhesion and Electroosmotic Flow in Microchannels. , 2001, , 605-606.		0
147	Hopping mechanism of particles and cells escaping from optoelectronic tweezer traps. , 2018, , .		0
148	Machine Learning to Automate the Visual Interpretation of Chemical Agglutination Tests. , 2022, , .		0