

Gwo-Bin Lee

List of Publications by Year in descending order

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511
papers

15,367
citations

16451

64
h-index

33894

99
g-index

525
all docs

525
docs citations

525
times ranked

13727
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated polymerase chain reaction chips utilizing digital microfluidics. <i>Biomedical Microdevices</i> , 2006, 8, 215-225.	2.8	388
2	Humidity Sensors: A Review. <i>Sensor Letters</i> , 2005, 3, 1-15.	0.4	368
3	Microfluidic cell culture systems for drug research. <i>Lab on A Chip</i> , 2010, 10, 939.	6.0	364
4	A fast prototyping process for fabrication of microfluidic systems on soda-lime glass. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 726-732.	2.6	248
5	A new fabrication process for ultra-thick microfluidic microstructures utilizing SU-8 photoresist. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 590-597.	2.6	247
6	Microfabricated plastic chips by hot embossing methods and their applications for DNA separation and detection. <i>Sensors and Actuators B: Chemical</i> , 2001, 75, 142-148.	7.8	240
7	Diesel exhaust particle induction of IL-17A contributes to severe asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 132, 1194-1204.e2.	2.9	208
8	Electrokinetically driven micro flow cytometers with integrated fiber optics for on-line cell/particle detection. <i>Analytica Chimica Acta</i> , 2004, 507, 163-169.	5.4	188
9	The hydrodynamic focusing effect inside rectangular microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1024-1032.	2.6	188
10	High-purity and label-free isolation of circulating tumor cells (CTCs) in a microfluidic platform by using optically-induced-dielectrophoretic (ODEP) force. <i>Lab on A Chip</i> , 2013, 13, 1371.	6.0	187
11	Beyond the Debye length in high ionic strength solution: direct protein detection with field-effect transistors (FETs) in human serum. <i>Scientific Reports</i> , 2017, 7, 5256.	3.3	173
12	A magnetic bead-based assay for the rapid detection of methicillin-resistant <i>Staphylococcus aureus</i> by using a microfluidic system with integrated loop-mediated isothermal amplification. <i>Lab on A Chip</i> , 2011, 11, 1521.	6.0	163
13	Automatic bio-sampling chips integrated with micro-pumps and micro-valves for disease detection. <i>Biosensors and Bioelectronics</i> , 2005, 21, 419-425.	10.1	151
14	Integrated microfluidic systems for cell lysis, mixing/pumping and DNA amplification. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1215-1223.	2.6	150
15	Size-Dependent Attenuation of TLR9 Signaling by Gold Nanoparticles in Macrophages. <i>Journal of Immunology</i> , 2012, 188, 68-76.	0.8	142
16	Integrated microfluidic system for rapid screening of CRP aptamers utilizing systematic evolution of ligands by exponential enrichment (SELEX). <i>Biosensors and Bioelectronics</i> , 2010, 25, 1761-1766.	10.1	133
17	Micro flow cytometry utilizing a magnetic bead-based immunoassay for rapid virus detection. <i>Biosensors and Bioelectronics</i> , 2008, 24, 855-862.	10.1	128
18	High sensitivity cardiac troponin I detection in physiological environment using AlGaIn/GaN High Electron Mobility Transistor (HEMT) Biosensors. <i>Biosensors and Bioelectronics</i> , 2018, 100, 282-289.	10.1	128

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19	Active micro-mixers using surface acoustic waves on Y-cut 128Å° LiNbO3. Journal of Micromechanics and Microengineering, 2006, 16, 539-548.	2.6	119
20	Micromachine-based humidity sensors with integrated temperature sensors for signal drift compensation. Journal of Micromechanics and Microengineering, 2003, 13, 620-627.	2.6	117
21	A cell counting/sorting system incorporated with a microfabricated flow cytometer chip. Measurement Science and Technology, 2006, 17, 2001-2009.	2.6	117
22	Integrated reverse transcription polymerase chain reaction systems for virus detection. Biosensors and Bioelectronics, 2007, 22, 1739-1748.	10.1	116
23	Microfluidic systems integrated with two-dimensional surface plasmon resonance phase imaging systems for microarray immunoassay. Biosensors and Bioelectronics, 2007, 23, 466-472.	10.1	114
24	Nucleic acid amplification using microfluidic systems. Lab on A Chip, 2013, 13, 1225.	6.0	114
25	Hydrodynamic Focusing for a Micromachined Flow Cytometer. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 672-679.	1.5	112
26	Pneumatically driven peristaltic micropumps utilizing serpentine-shape channels. Journal of Micromechanics and Microengineering, 2006, 16, 341-348.	2.6	110
27	An integrated microfluidic chip for DNA/RNA amplification, electrophoresis separation and on-line optical detection. Electrophoresis, 2006, 27, 3297-3305.	2.4	108
28	A flexible micromachine-based shear-stress sensor array and its application to separation-point detection. Sensors and Actuators A: Physical, 2000, 79, 194-203.	4.1	107
29	Purification and enrichment of virus samples utilizing magnetic beads on a microfluidic system. Lab on A Chip, 2007, 7, 868.	6.0	106
30	Electrokinetic Injection Techniques in Microfluidic Chips. Analytical Chemistry, 2002, 74, 5084-5091.	6.5	105
31	Sample preconcentration in microfluidic devices. Microfluidics and Nanofluidics, 2011, 10, 481-511.	2.2	103
32	Micro flow cytometers with buried SU-8/SOG optical waveguides. Sensors and Actuators A: Physical, 2003, 103, 165-170.	4.1	102
33	Micromachined flow cytometers with embedded etched optic fibers for optical detection. Journal of Micromechanics and Microengineering, 2003, 13, 447-453.	2.6	96
34	Optically induced flow cytometry for continuous microparticle counting and sorting. Biosensors and Bioelectronics, 2008, 24, 572-578.	10.1	96
35	Electrokinetically driven active micro-mixers utilizing zeta potential variation induced by field effect. Journal of Micromechanics and Microengineering, 2004, 14, 1390-1398.	2.6	94
36	An integrated microfluidic system for rapid screening of alpha-fetoprotein-specific aptamers. Biosensors and Bioelectronics, 2012, 35, 50-55.	10.1	94

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37	An integrated microfluidic system for rapid diagnosis of dengue virus infection. <i>Biosensors and Bioelectronics</i> , 2009, 25, 745-752.	10.1	93
38	Pneumatic micropumps with serially connected actuation chambers. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 2265-2272.	2.6	91
39	An integrated microfluidic system for fast, automatic detection of C-reactive protein. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 710-721.	7.8	91
40	A sample-to-answer, portable platform for rapid detection of pathogens with a smartphone interface. <i>Lab on A Chip</i> , 2019, 19, 3804-3814.	6.0	90
41	Miniature RT-PCR system for diagnosis of RNA-based viruses. <i>Nucleic Acids Research</i> , 2005, 33, e156-e156.	14.5	89
42	A microfluidic system utilizing molecularly imprinted polymer films for amperometric detection of morphine. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 576-582.	7.8	88
43	A high throughput perfusion-based microbioreactor platform integrated with pneumatic micropumps for three-dimensional cell culture. <i>Biomedical Microdevices</i> , 2008, 10, 309-319.	2.8	86
44	An integrated microfluidic loop-mediated-isothermal-amplification system for rapid sample pre-treatment and detection of viruses. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2045-2052.	10.1	85
45	Electrokinetic Focusing Injection Methods on Microfluidic Devices. <i>Analytical Chemistry</i> , 2003, 75, 1905-1910.	6.5	84
46	Vertical Focusing Device Utilizing Dielectrophoretic Force and Its Application on Microflow Cytometer. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 923-932.	2.5	84
47	Micromachined polymerase chain reaction system for multiple DNA amplification of upper respiratory tract infectious diseases. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1341-1348.	10.1	83
48	A pneumatic micropump incorporated with a normally closed valve capable of generating a high pumping rate and a high back pressure. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 823-833.	2.2	83
49	An integrated microfluidic system for C-reactive protein measurement. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3091-3096.	10.1	82
50	Influenza A virus-specific aptamers screened by using an integrated microfluidic system. <i>Lab on A Chip</i> , 2014, 14, 2002-2013.	6.0	80
51	An on-chip Cell-SELEX process for automatic selection of high-affinity aptamers specific to different histologically classified ovarian cancer cells. <i>Lab on A Chip</i> , 2014, 14, 4017-4028.	6.0	75
52	Integrated microfluidic systems for automatic glucose sensing and insulin injection. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 461-468.	7.8	74
53	Rapid detection of influenza A virus infection utilizing an immunomagnetic bead-based microfluidic system. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3900-3907.	10.1	74
54	Micromachined pre-focused microfluidic flow switches for continuous multi-sample injection. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 654-661.	2.6	73

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55	Stem cells in microfluidics. <i>Biomicrofluidics</i> , 2011, 5, 013401.	2.4	73
56	A suction-type, pneumatic microfluidic device for liquid transport and mixing. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 301-310.	2.2	72
57	New magnetic tweezers for investigation of the mechanical properties of single DNA molecules. <i>Nanotechnology</i> , 2006, 17, 1217-1224.	2.6	71
58	An integrated microfluidic system for measurement of glycosylated hemoglobin Levels by using an aptamer-antibody assay on magnetic beads. <i>Biosensors and Bioelectronics</i> , 2015, 68, 397-403.	10.1	71
59	Size-controlled synthesis of gold nanoparticles using a micro-mixing system. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 303-311.	2.2	70
60	Integrated microfluidic system for rapid detection of influenza H1N1 virus using a sandwich-based aptamer assay. <i>Biosensors and Bioelectronics</i> , 2016, 82, 105-111.	10.1	70
61	Micro-droplet formation utilizing microfluidic flow focusing and controllable moving-wall chopping techniques. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 2403-2410.	2.6	69
62	A microfluidic device for antimicrobial susceptibility testing based on a broth dilution method. <i>Biosensors and Bioelectronics</i> , 2017, 87, 669-678.	10.1	68
63	A microfluidic chip capable of generating and trapping emulsion droplets for digital loop-mediated isothermal amplification analysis. <i>Lab on A Chip</i> , 2018, 18, 296-303.	6.0	68
64	Development of perfusion-based micro 3-D cell culture platform and its application for high throughput drug testing. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 231-240.	7.8	67
65	On-chip, aptamer-based sandwich assay for detection of glycosylated hemoglobins via magnetic beads. <i>Biosensors and Bioelectronics</i> , 2016, 79, 887-893.	10.1	66
66	Determination of Cell Membrane Capacitance and Conductance via Optically Induced Electrokinetics. <i>Biophysical Journal</i> , 2017, 113, 1531-1539.	0.5	66
67	An integrated microfluidic system with field-effect-transistor sensor arrays for detecting multiple cardiovascular biomarkers from clinical samples. <i>Biosensors and Bioelectronics</i> , 2019, 129, 155-163.	10.1	66
68	Control of machining parameters for energy and cost savings in micro-scale drilling of PCBs. <i>Journal of Cleaner Production</i> , 2013, 54, 41-48.	9.3	65
69	An integrated microfluidic platform to perform uninterrupted SELEX cycles to screen affinity reagents specific to cardiovascular biomarkers. <i>Biosensors and Bioelectronics</i> , 2018, 122, 104-112.	10.1	63
70	Membrane-activated microfluidic rotary devices for pumping and mixing. <i>Biomedical Microdevices</i> , 2007, 9, 545-554.	2.8	61
71	A vortex-type micromixer utilizing pneumatically driven membranes. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 035020.	2.6	61
72	An integrated self-driven microfluidic device for rapid detection of the influenza A (H1N1) virus by reverse transcription loop-mediated isothermal amplification. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126647.	7.8	60

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73	A microfluidic system for automatic cell culture. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1266-1274.	2.6	59
74	An SU-8 microlens array fabricated by soft replica molding for cell counting applications. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 693-699.	2.6	59
75	An optically induced cell lysis device using dielectrophoresis. <i>Applied Physics Letters</i> , 2009, 94, 033901.	3.3	58
76	An integrated microfluidic system for on-chip enrichment and quantification of circulating extracellular vesicles from whole blood. <i>Lab on A Chip</i> , 2019, 19, 3305-3315.	6.0	58
77	Micro capillary electrophoresis chips integrated with buried SU-8/SOG optical waveguides for bio-analytical applications. <i>Sensors and Actuators A: Physical</i> , 2003, 107, 125-131.	4.1	57
78	Biomedical microdevices synthesis of iron oxide nanoparticles using a microfluidic system. <i>Biomedical Microdevices</i> , 2009, 11, 161-171.	2.8	57
79	Screening of Aptamers on Microfluidic Systems for Clinical Applications. <i>Sensors</i> , 2012, 12, 9514-9529.	3.8	57
80	Screening of highly-specific aptamers and their applications in paper-based microfluidic chips for rapid diagnosis of multiple bacteria. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 395-402.	7.8	57
81	Analysis of the optimal dimension on the electrothermal microactuator. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 291-296.	2.6	55
82	Micro devices integrated with microchannels and electrospray nozzles using PDMS casting techniques. <i>Sensors and Actuators B: Chemical</i> , 2002, 86, 280-286.	7.8	55
83	Integrated microfluidic device using a single universal aptamer to detect multiple types of influenza viruses. <i>Biosensors and Bioelectronics</i> , 2016, 86, 247-254.	10.1	55
84	A novel micromachined flow sensor using periodic flapping motion of a planar jet impinging on a V-shaped plate. <i>Experimental Thermal and Fluid Science</i> , 2002, 26, 435-444.	2.7	54
85	Automatic microfluidic platform for cell separation and nucleus collection. <i>Biomedical Microdevices</i> , 2007, 9, 533-543.	2.8	54
86	Rapid isolation and detection of cancer cells by utilizing integrated microfluidic systems. <i>Lab on A Chip</i> , 2010, 10, 2875.	6.0	54
87	Enhancement of thermal uniformity for a microthermal cyclers and its application for polymerase chain reaction. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 848-856.	7.8	53
88	Screening of aptamers specific to colorectal cancer cells and stem cells by utilizing On-chip Cell-SELEX. <i>Scientific Reports</i> , 2015, 5, 10326.	3.3	53
89	Micromachined pre-focused 1 μ m flow switches for continuous sample injection. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 567-573.	2.6	52
90	Microfluidic System for Detection of β -Thalassemia-1 Deletion Using Saliva Samples. <i>Analytical Chemistry</i> , 2009, 81, 4502-4509.	6.5	52

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91	Rapid isolation and detection of aquaculture pathogens in an integrated microfluidic system using loop-mediated isothermal amplification. <i>Sensors and Actuators B: Chemical</i> , 2013, 180, 96-106.	7.8	52
92	Synthesis of hexagonal gold nanoparticles using a microfluidic reaction system. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 035019.	2.6	51
93	Extraction of genomic DNA and detection of single nucleotide polymorphism genotyping utilizing an integrated magnetic bead-based microfluidic platform. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 539-555.	2.2	51
94	Detecting miRNA biomarkers from extracellular vesicles for cardiovascular disease with a microfluidic system. <i>Lab on A Chip</i> , 2018, 18, 2917-2925.	6.0	51
95	Flow-through sampling for electrophoresis-based microfluidic chips using hydrodynamic pumping. <i>Journal of Chromatography A</i> , 2001, 937, 115-125.	3.7	50
96	Magnetic nanoparticle-based immunoassay for rapid detection of influenza infections by using an integrated microfluidic system. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 819-829.	3.3	50
97	Self-Rotation of Cells in an Irrotational AC E-Field in an Opto-Electrokinetics Chip. <i>PLoS ONE</i> , 2013, 8, e51577.	2.5	50
98	Minimal dead-volume connectors for microfluidics using PDMS casting techniques. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1484-1490.	2.6	49
99	Formation of Microdroplets in Liquids Utilizing Active Pneumatic Choppers on a Microfluidic Chip. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 1492-1498.	2.5	49
100	Urine analysis in microfluidic devices. <i>Analyst, The</i> , 2011, 136, 2669.	3.5	49
101	Selection of aptamers specific for glycosylated hemoglobin and total hemoglobin using on-chip SELEX. <i>Lab on A Chip</i> , 2015, 15, 486-494.	6.0	49
102	A structure-free digital microfluidic platform for detection of influenza A virus by using magnetic beads and electromagnetic forces. <i>Lab on A Chip</i> , 2020, 20, 789-797.	6.0	49
103	Flow-Through Sampling for Electrophoresis-Based Microchips and Their Applications for Protein Analysis. <i>Analytical Chemistry</i> , 2002, 74, 5146-5153.	6.5	48
104	A disposable poly(methylmethacrylate)-based microfluidic module for protein identification by nanoelectrospray ionization-tandem mass spectrometry. <i>Electrophoresis</i> , 2001, 22, 3972-3977.	2.4	47
105	A microfabricated capillary electrophoresis chip with multiple buried optical fibers and microfocusing lens for multiwavelength detection. <i>Electrophoresis</i> , 2005, 26, 1122-1129.	2.4	46
106	A droplet-based microfluidic system capable of droplet formation and manipulation. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 599-610.	2.2	46
107	A miniaturized quantitative polymerase chain reaction system for DNA amplification and detection. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 329-337.	7.8	45
108	Analysis of geometry effects on band spreading of microchip electrophoresis. <i>Electrophoresis</i> , 2002, 23, 602-612.	2.4	44

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109	A new focusing model and switching approach for electrokinetic flow inside microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 2141-2148.	2.6	44
110	An integrated microfluidic system using magnetic beads for virus detection. <i>Diagnostic Microbiology and Infectious Disease</i> , 2008, 60, 51-58.	1.8	44
111	Localised heating of tumours utilising injectable magnetic nanoparticles for hyperthermia cancer therapy. <i>IET Nanobiotechnology</i> , 2009, 3, 46.	3.8	44
112	An integrated microfluidic system for rapid detection and multiple subtyping of influenza A viruses by using glycan-coated magnetic beads and RT-PCR. <i>Lab on A Chip</i> , 2019, 19, 1277-1286.	6.0	44
113	Dual aptamer assay for detection of <i>Acinetobacter baumannii</i> on an electromagnetically-driven microfluidic platform. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112148.	10.1	44
114	Variable-volume-injection methods using electrokinetic focusing on microfluidic chips. <i>Journal of Separation Science</i> , 2002, 25, 996-1010.	2.5	43
115	Integrated optical-fiber capillary electrophoresis microchips with novel spin-on-glass surface modification. <i>Biosensors and Bioelectronics</i> , 2004, 20, 83-90.	10.1	43
116	On the surface modification of microchannels for microcapillary electrophoresis chips. <i>Electrophoresis</i> , 2005, 26, 4616-4624.	2.4	43
117	Micromachine-based multi-channel flow cytometers for cell/particle counting and sorting. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 447-454.	2.6	43
118	A membrane-based serpentine-shape pneumatic micropump with pumping performance modulated by fluidic resistance. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 045008.	2.6	43
119	An integrated chip capable of performing sample pretreatment and nucleic acid amplification for HIV-1 detection. <i>Biosensors and Bioelectronics</i> , 2013, 41, 484-491.	10.1	43
120	Digital quantification of DNA via isothermal amplification on a self-driven microfluidic chip featuring hydrophilic film-coated polydimethylsiloxane. <i>Biosensors and Bioelectronics</i> , 2018, 99, 547-554.	10.1	43
121	A micromachined DNA manipulation platform for the stretching and rotation of a single DNA molecule. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 109-117.	2.6	42
122	Model Description of Contact Angles in Electrowetting on Dielectric Layers. <i>Langmuir</i> , 2006, 22, 484-489.	3.5	42
123	Magnetic-bead-based microfluidic system for ribonucleic acid extraction and reverse transcription processes. <i>Biomedical Microdevices</i> , 2009, 11, 339-350.	2.8	42
124	Separation of micro-particles utilizing spatial difference of optically induced dielectrophoretic forces. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 217-229.	2.2	42
125	An integrated cell counting and continuous cell lysis device using an optically induced electric field. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 854-860.	7.8	42
126	Rapid determination of cell mass and density using digitally controlled electric field in a microfluidic chip. <i>Lab on A Chip</i> , 2014, 14, 4426-4434.	6.0	42

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127	Extracellular-controlled breast cancer cell formation and growth using non-UV patterned hydrogels via optically-induced electrokinetics. <i>Lab on A Chip</i> , 2014, 14, 1367.	6.0	42
128	Rapid detection and typing of live bacteria from human joint fluid samples by utilizing an integrated microfluidic system. <i>Biosensors and Bioelectronics</i> , 2015, 66, 148-154.	10.1	42
129	A microfluidic platform integrated with field-effect transistors for enumeration of circulating tumor cells. <i>Lab on A Chip</i> , 2019, 19, 618-625.	6.0	42
130	Out-of-plane magnetic actuators with electroplated permalloy for fluid dynamics control. <i>Sensors and Actuators A: Physical</i> , 1999, 78, 190-197.	4.1	41
131	Multiple injection techniques for microfluidic sample handling. <i>Electrophoresis</i> , 2003, 24, 3026-3032.	2.4	41
132	A tunable micro filter modulated by pneumatic pressure for cell separation. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 389-399.	7.8	41
133	A microfluidic platform for formation of double-emulsion droplets. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 709-719.	2.2	40
134	Manipulation of single DNA molecules by using optically projected images. <i>Optics Express</i> , 2009, 17, 15318.	3.4	40
135	Miniaturization of molecular biological techniques for gene assay. <i>Analyst, The</i> , 2010, 135, 1499.	3.5	40
136	Optical Spectrum and Electric Field Waveform Dependent Optically-Induced Dielectrophoretic (ODEP) Micro-Manipulation. <i>Micromachines</i> , 2012, 3, 492-508.	2.9	40
137	Microfluidic pH-sensing chips integrated with pneumatic fluid-control devices. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1468-1475.	10.1	39
138	Manipulation and patterning of carbon nanotubes utilizing optically induced dielectrophoretic forces. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 609-617.	2.2	39
139	Robust Vortex Control of a Delta Wing by Distributed Microelectromechanical-Systems Actuators. <i>Journal of Aircraft</i> , 2000, 37, 697-706.	2.4	38
140	Plastic microchip electrophoresis for genetic screening: The analysis of polymerase chain reactions products of fragile X (CGG) _n alleles. <i>Electrophoresis</i> , 2001, 22, 1188-1193.	2.4	38
141	CE chips fabricated by injection molding and polyethylene/thermoplastic elastomer film packaging methods. <i>Electrophoresis</i> , 2007, 28, 1130-1137.	2.4	38
142	An integrated microfluidic system for isolation, counting, and sorting of hematopoietic stem cells. <i>Biomicrofluidics</i> , 2010, 4, .	2.4	38
143	An integrated microfluidic device utilizing vancomycin conjugated magnetic beads and nanogold-labeled specific nucleotide probes for rapid pathogen diagnosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 809-818.	3.3	38
144	Continuous nucleus extraction by optically-induced cell lysis on a batch-type microfluidic platform. <i>Lab on A Chip</i> , 2016, 16, 1447-1456.	6.0	38

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145	Simultaneous separation and concentration of micro- and nano-particles by optically induced electrokinetics. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 103-111.	4.1	37
146	A microfluidic immunomagnetic bead-based system for the rapid detection of influenza infections: from purified virus particles to clinical specimens. <i>Biomedical Microdevices</i> , 2013, 15, 539-551.	2.8	37
147	An automatic microfluidic system for rapid screening of cancer stem-like cell-specific aptamers. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 753-765.	2.2	37
148	Simultaneous detection of multiple NT-proBNP clinical samples utilizing an aptamer-based sandwich assay on an integrated microfluidic system. <i>Lab on A Chip</i> , 2019, 19, 1676-1685.	6.0	37
149	Nervous Necrosis Virus Replicates Following the Embryo Development and Dual Infection with Iridovirus at Juvenile Stage in Grouper. <i>PLoS ONE</i> , 2012, 7, e36183.	2.5	36
150	Design and Demonstration of Tunable Amplified Sensitivity of AlGaIn/GaN High Electron Mobility Transistor (HEMT)-Based Biosensors in Human Serum. <i>Analytical Chemistry</i> , 2019, 91, 5953-5960.	6.5	34
151	Detection and isolation of free cancer cells from ascites and peritoneal lavages using optically induced electrokinetics (OEK). <i>Science Advances</i> , 2020, 6, eaba9628.	10.3	34
152	Poly(dimethylsiloxane)-based microfluidic device with electrospray ionization-mass spectrometry interface for protein identification. <i>Electrophoresis</i> , 2003, 24, 3648-3654.	2.4	32
153	A cell delivery and pre-positioning system utilizing microfluidic devices for dual-beam optical trap-and-stretch. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 388-397.	7.8	32
154	Droplet Formation Utilizing Controllable Moving-Wall Structures for Double-Emulsion Applications. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 573-581.	2.5	32
155	A microfabricated CE chip for DNA preconcentration and separation utilizing a normally closed valve. <i>Electrophoresis</i> , 2009, 30, 3228-3235.	2.4	32
156	A microfluidic platform for manipulation and separation of oil-in-water emulsion droplets using optically induced dielectrophoresis. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 045026.	2.6	32
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