Gwo-Bin Lee

List of Publications by Year
in descending order

511	15,367	16451 64	33894 99
papers	citations	h-index	g-index

525	525	525	13727
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aptamer selection against alpha-defensin human neutrophil peptide 1 on an integrated microfluidic system for diagnosis of periprosthetic joint infections. Lab on A Chip, 2022, 22, 250-261.	6.0	7
2	Isolation and Quantification of Methylated Cell-Free DNA in Plasma on an Integrated Microfluidic System. Analytical Chemistry, 2022, 94, 2134-2141.	6.5	3
3	Isolation and digital counting of extracellular vesicles from blood via membrane-integrated microfluidics. Sensors and Actuators B: Chemical, 2022, 358, 131473.	7.8	10
4	An integrated microfluidic platform featuring real-time reverse transcription loop-mediated isothermal amplification for detection of COVID-19. Sensors and Actuators B: Chemical, 2022, 358, 131447.	7.8	25
5	Integrated Microfluidic System for Cell-Free DNA Extraction from Plasma for Mutant Gene Detection and Quantification. Analytical Chemistry, 2022, 94, 4311-4318.	6.5	6
6	Rapid molecular diagnosis of live Mycobacterium tuberculosis on an integrated microfluidic system. Sensors and Actuators B: Chemical, 2022, 365, 131968.	7.8	9
7	Electromagnetically-driven integrated microfluidic platform using reverse transcription loop-mediated isothermal amplification for detection of severe acute respiratory syndrome coronavirus 2. Analytica Chimica Acta, 2022, 1219, 340036.	5.4	7
8	An integrated microfluidic system for early detection of sepsis-inducing bacteria. Lab on A Chip, 2021, 21, 113-121.	6.0	29
9	Rapid antimicrobial susceptibility tests on an integrated microfluidic device for precision medicine of antibiotics. Biosensors and Bioelectronics, 2021, 176, 112890.	10.1	7
10	Detection of Methylated Cell-Free DNA for Diagnosis and Prognosis of Ovarian Cancer on an Integrated Microfluidic System. , 2021, , .		0
11	An Integrated Microfluidic Platform to Detect FXYD2 RNA Expression in Ascites for Diagnosis of Ovarian Clear Cell Carcinoma. , 2021, , .		1
12	An automated and portable antimicrobial susceptibility testing system for urinary tract infections. Lab on A Chip, 2021, 21, 755-763.	6.0	5
13	Isolation and recovery of extracellular vesicles using optically-induced dielectrophoresis on an integrated microfluidic platform. Lab on A Chip, 2021, 21, 1475-1483.	6.0	23
14	Extraction and Quantification of Microrna Biomarkers for Diagnosis of Ovarian Cancer on an Integrated Microfluidic Platform. , 2021, , .		3
15	An integrated microfluidic platform for detection of ovarian clear cell carcinoma mRNA biomarker FXYD2. Lab on A Chip, 2021, 21, 2625-2632.	6.0	5
16	A multiplexed nanoliter array-based microfluidic platform for quick, automatic antimicrobial susceptibility testing. Lab on A Chip, 2021, 21, 2223-2231.	6.0	13
17	An Integrated Microfluidic System for Early Diagnosis of Breast Cancer in Liquid Biopsy by Using Microrna and FET Biosensors. , 2021, , .		3
18	Screening aptamers targeting the cell membranes of clinical cancer tissues on an integrated microfluidic system. Sensors and Actuators B: Chemical, 2021, 330, 129334.	7.8	17

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19	A miniaturized, DNA-FET biosensor-based microfluidic system for quantification of two breast cancer biomarkers. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	23
20	An aptamer interacting with heat shock protein 70 shows therapeutic effects and prognostic ability in serous ovarian cancer. Molecular Therapy - Nucleic Acids, 2021, 23, 757-768.	5.1	10
21	Exfoliated tumor cells in bile as a promising indicator of disease status in cholangiocarcinoma. Sensors and Actuators B: Chemical, 2021, 346, 130526.	7.8	2
22	Optimization of aptamer selection on an automated microfluidic system with cancer tissues. Lab on A Chip, 2021, 21, 725-734.	6.0	15
23	Isolation and quantification of extracellular vesicle-encapsulated microRNA on an integrated microfluidic platform. Lab on A Chip, 2021, 21, 4660-4671.	6.0	14
24	A structure-free digital microfluidic platform for detection of influenza a virus by using magnetic beads and electromagnetic forces. Lab on A Chip, 2020, 20, 789-797.	6.0	49
25	Aptamer probed isolation of circulating tumor cells in cholangiocarcinoma patients. Sensors and Actuators B: Chemical, 2020, 322, 128569.	7.8	7
26	Detection and isolation of free cancer cells from ascites and peritoneal lavages using optically induced electrokinetics (OEK). Science Advances, 2020, 6, eaba9628.	10.3	34
27	A CMOS-Based Capacitive Biosensor for Detection of a Breast Cancer MicroRNA Biomarker. IEEE Open Journal of Nanotechnology, 2020, 1, 157-162.	2.0	5
28	Two-step magnetic bead-based (2MBB) techniques for immunocapture of extracellular vesicles and quantification of microRNAs for cardiovascular diseases: A pilot study. PLoS ONE, 2020, 15, e0229610.	2.5	25
29	An integrated microfluidic system for rapid, automatic and high-throughput staining of clinical tissue samples for diagnosis of ovarian cancer. Lab on A Chip, 2020, 20, 1103-1109.	6.0	20
30	An Automated Microfluidic System for Optimization of Aptamer Selection by Using Cancer Tissue Samples. , 2020, , .		0
31	Dual aptamer assay for detection of Acinetobacter baumannii on an electromagnetically-driven microfluidic platform. Biosensors and Bioelectronics, 2020, 159, 112148.	10.1	44
32	Exploring Circulating Tumor Cells in Cholangiocarcinoma Using a Novel Glycosaminoglycan Probe on a Microfluidic Platform. Advanced Healthcare Materials, 2020, 9, e1901875.	7.6	13
33	Screening of multiple hemoprotein-specific aptamers and their applications for the binding, quantification, and extraction of hemoproteins in a microfluidic system. Biomicrofluidics, 2020, 14, 024110.	2.4	2
34	Rapid Enrichment of Extracellular Vesicles via Optically-induced Dielectrophoresis and Microfluidics. , 2020, , .		1
35	An integrated microfluidic platform for cholangiocarcinoma diagnosis from clinical bile juice samples by utilizing multiple affinity reagents. , 2020, , .		0
36	2 x 3 Arrayed CMOS Capacitive Biosensors for Detection of microRNAs on a Microfluidic System. , 2020, , .		0

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37	An integrated microfluidic system for antimicrobial susceptibility testing with antibiotic combination. Lab on A Chip, 2019, 19, 2699-2708.	6.0	29
38	Optimization of an enzyme linked DNA aptamer assay for cardiac troponin I detection: synchronous multiple sample analysis on an integrated microfluidic platform. Analyst, The, 2019, 144, 4943-4951.	3.5	31
39	A Smartphone-Based Portable System for Rapid Detection of Pathogens. , 2019, , .		0
40	An integrated microfluidic system for on-chip enrichment and quantification of circulating extracellular vesicles from whole blood. Lab on A Chip, 2019, 19, 3305-3315.	6.0	58
41	An Aptamer Based Sandwich Assay for Simultaneous Detection of Multiple Cardiovascular Biomarkers on A Multilayered Integrated Microfluidic System. , 2019, , .		4
42	A Portable, Automatic Microfluidic System for Rapid Personalized Antibiotic Screening. , 2019, , .		0
43	A microfluidic platform integrated with field-effect transistors for enumeration of circulating tumor cells. Lab on A Chip, 2019, 19, 618-625.	6.0	42
44	Bacterial detection and identification from human synovial fluids on an integrated microfluidic system. Analyst, The, 2019, 144, 1210-1222.	3.5	11
45	An integrated self-driven microfluidic device for rapid detection of the influenza A (H1N1) virus by reverse transcription loop-mediated isothermal amplification. Sensors and Actuators B: Chemical, 2019, 296, 126647.	7.8	60
46	Design and Demonstration of Tunable Amplified Sensitivity of AlGaN/GaN High Electron Mobility Transistor (HEMT)-Based Biosensors in Human Serum. Analytical Chemistry, 2019, 91, 5953-5960.	6.5	34
47	Generating digital drug cocktails via optical manipulation of drug-containing particles and photo-patterning of hydrogels. Lab on A Chip, 2019, 19, 1764-1771.	6.0	10
48	An automated microfluidic system for selection of aptamer probes against ovarian cancer tissues. Biomicrofluidics, 2019, 13, 014114.	2.4	18
49	Simultaneous detection of multiple NT-proBNP clinical samples utilizing an aptamer-based sandwich assay on an integrated microfluidic system. Lab on A Chip, 2019, 19, 1676-1685.	6.0	37
50	An integrated microfluidic system for rapid detection and multiple subtyping of influenza A viruses by using glycan-coated magnetic beads and RT-PCR. Lab on A Chip, 2019, 19, 1277-1286.	6.0	44
51	A sample-to-answer, portable platform for rapid detection of pathogens with a smartphone interface. Lab on A Chip, 2019, 19, 3804-3814.	6.0	90
52	Microfluidic Systems for Fast and Accurate Diagnosis of Ovarian Cancers. , 2019, , .		0
53	Screening of highly-specific aptamers and their applications in paper-based microfluidic chips for rapid diagnosis of multiple bacteria. Sensors and Actuators B: Chemical, 2019, 284, 395-402.	7.8	57
54	An integrated microfluidic system with field-effect-transistor sensor arrays for detecting multiple cardiovascular biomarkers from clinical samples. Biosensors and Bioelectronics, 2019, 129, 155-163.	10.1	66

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55	Super-resolution Monitoring of React-on-demand Photo-assisted Electrochemical Printing via Microsphere Nanoscopy. , 2019, , .		1
56	Dynamic monitoring of transmembrane potential changes: a study of ion channels using an electrical double layer-gated FET biosensor. Lab on A Chip, 2018, 18, 1047-1056.	6.0	16
57	Visible light induced electropolymerization of suspended hydrogel bioscaffolds in a microfluidic chip. Biomaterials Science, 2018, 6, 1371-1378.	5.4	13
58	A Comprehensive Model for Whole Cell Sensing and Transmembrane Potential Measurement Using FET Biosensors. ECS Journal of Solid State Science and Technology, 2018, 7, Q3001-Q3008.	1.8	12
59	An integrated microfluidic system using mannose-binding lectin for bacteria isolation and biofilm-related gene detection. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	7
60	Integrated microfluidic system with field effect transistor for automatic detection of multiple cardiovascular biomarkers. , 2018, , .		1
61	An automatic integrated microfluidic system for allergy microarray chips. Analyst, The, 2018, 143, 2285-2292.	3.5	8
62	High sensitivity cardiac troponin I detection in physiological environment using AlGaN/GaN High Electron Mobility Transistor (HEMT) Biosensors. Biosensors and Bioelectronics, 2018, 100, 282-289.	10.1	128
63	A microfluidic chip capable of generating and trapping emulsion droplets for digital loop-mediated isothermal amplification analysis. Lab on A Chip, 2018, 18, 296-303.	6.0	68
64	Enumeration of circulating tumor cells and investigation of cellular responses using aptamer-immobilized AlGaN/GaN high electron mobility transistor sensor array. Sensors and Actuators B: Chemical, 2018, 257, 96-104.	7.8	29
65	Digital quantification of DNA via isothermal amplification on a self-driven microfluidic chip featuring hydrophilic film-coated polydimethylsiloxane. Biosensors and Bioelectronics, 2018, 99, 547-554.	10.1	43
66	An Integrated Microfluidic System for Bacteria Identification from Human Joint Fluids. , 2018, , .		0
67	Thermometry of photosensitive and optically induced electrokinetics chips. Microsystems and Nanoengineering, 2018, 4, 26.	7.0	2
68	Microfluidic platforms for rapid screening of cancer affinity reagents by using tissue samples. Biomicrofluidics, 2018, 12, 054108.	2.4	14
69	Non-UV Patterning of Gelatin Methacryloyl Hydrogel by Optically Induced Electropolymerization. , 2018, , .		0
70	An integrated microfluidic platform to perform uninterrupted SELEX cycles to screen affinity reagents specific to cardiovascular biomarkers. Biosensors and Bioelectronics, 2018, 122, 104-112.	10.1	63
71	Detection of micro ribonucleic acids from extracted extracellular vesicles for cardiovascular diseases by using an integrated microfluidic system. , 2018, , .		0
72	Direct detection of DNA using electrical double layer gated high electron mobility transistor in high ionic strength solution with high sensitivity and specificity. Sensors and Actuators B: Chemical, 2018, 271, 110-117.	7.8	19

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73	Automatic cell fusion via optically-induced dielectrophoresis and optically-induced locally-enhanced electric field on a microfluidic chip. Biomicrofluidics, 2018, 12, 034108.	2.4	17
74	An integrated microfluidic system for identification of live mycobacterium tuberculosis by real-time polymerase chain reaction. , 2018, , .		2
75	Rapid Assembly of Carbon Nanoparticles Into Electrical Elements by Optically-Induced Electroosmotic Flow. IEEE Nanotechnology Magazine, 2018, 17, 1045-1052.	2.0	5
76	EDL Gated FET Biosensor Array for the Investigation of Ion Channels and Bioelectric Signals of Circulating Tumor Cells. ECS Transactions, 2018, 85, 15-23.	0.5	2
77	A nitrocellulose membrane-based integrated microfluidic system for bacterial detection utilizing magnetic-composite membrane microdevices and bacteria-specific aptamers. Lab on A Chip, 2018, 18, 1633-1640.	6.0	30
78	Automatic and rapid antimicrobial susceptibility test on an integrated microfluidic device. , 2018, , .		1
79	Detecting miRNA biomarkers from extracellular vesicles for cardiovascular disease with a microfluidic system. Lab on A Chip, 2018, 18, 2917-2925.	6.0	51
80	Aptamer-functionalized AlGaN/GaN High-electron-mobility Transistor for Rapid Diagnosis of Fibrinogen in Human Plasma. Sensors and Materials, 2018, 30, 2321.	0.5	4
81	Vancomycin-resistant gene identification from live bacteria on an integrated microfluidic system by using low temperature lysis and loop-mediated isothermal amplification. Biomicrofluidics, 2017, 11, 024101.	2.4	8
82	A microfluidic device for antimicrobial susceptibility testing of combined antibiotics by using broth dilution method. , 2017, , .		0
83	Combination of optical manipulation of particles and patterning of hydrogels for demonstration of digital drug cocktails. , 2017, , .		1
84	An integrated microfluidic system for live bacteria detection from human joint fluid samples by using ethidium monoazide and loop-mediated isothermal amplification. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	13
85	Editors' Choiceâ€"Field-Effect Transistor-Based Biosensors and a Portable Device for Personal Healthcare. ECS Journal of Solid State Science and Technology, 2017, 6, Q71-Q76.	1.8	21
86	Aptamer Functionalized AlGaN/GaN HEMT Biosensor Array for Electrical Enumeration of Circulating Tumor Cells. ECS Transactions, 2017, 77, 17-20.	0.5	4
87	Automatic optimization of drug cocktails on an integrated microfluidic system. Biomicrofluidics, 2017, 11, 034109.	2.4	5
88	Determination of Cell Membrane Capacitance and Conductance via Optically Induced Electrokinetics. Biophysical Journal, 2017, 113, 1531-1539.	0.5	66
89	Direct detection of fibrinogen in human plasma using electric-double-layer gated AlGaN/GaN high electron mobility transistors. Applied Physics Letters, 2017, 111, .	3.3	11
90	Detection of C-reactive protein on an integrated microfluidic system by utilizing field-effect transistors and aptamers. Biomicrofluidics, 2017, 11, 044105.	2.4	12

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91	Beyond the Debye length in high ionic strength solution: direct protein detection with field-effect transistors (FETs) in human serum. Scientific Reports, 2017, 7, 5256.	3.3	173
92	Microfluidic platform capable of performing automatic tissue slide-based selex and phage display for rapid screening of affinity reagents specific to ovarian cancer. , 2017, , .		0
93	Using bacterial selex to select highly-specific aptamers and their applications in paper-based microfluidic chips for rapid diagnosis of multiple bacteria. , 2017, , .		0
94	An integrated passive microfluidic device for rapid detection of influenza a (H1N1) virus by reverse transcription loop-mediated isothermal amplification (RT-LAMP). , 2017, , .		6
95	Screening of peptide specific to cholangiocarcinoma cancer cells using an integrated microfluidic system and phage display technology. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	4
96	Automated selection of aptamers against cholangiocarcinoma cells on an integrated microfluidic platform. Biomicrofluidics, 2017, 11, 044101.	2.4	32
97	An integrated microfluidic system for the isolation and detection of ovarian circulating tumor cells using cell selection and enrichment methods. Biomicrofluidics, 2017, 11, 034122.	2.4	22
98	A Microfluidic Chip for Detecting Cholangiocarcinoma Cells in Human Bile. Scientific Reports, 2017, 7, 4248.	3.3	8
99	A microfluidic device for antimicrobial susceptibility testing based on a broth dilution method. Biosensors and Bioelectronics, 2017, 87, 669-678.	10.1	68
100	Rapid identification of pathogens responsible for necrotizing fasciitis on an integrated microfluidic system. Biomicrofluidics, 2017, 11, 064108.	2.4	2
101	Automatic cell fusion using optically-induced dielectrophoresis and optically-induced localized electric field on a structure-free microfluidic chip. , 2017, , .		1
102	An integrated microfluidic system for dual aptamer assay utilizing magnetic-composite-membranes. , 2017, , .		0
103	An integrated microfluidic system for automating multiplex allergy microarrays. , 2017, , .		0
104	A microfluidic system for detection of cholangiocarcinoma cells by using heparan sulfate octasaccharides. , 2017, , .		0
105	A new membrane-type microfluidic device for rapid bacteria isolation. , 2017, , .		0
106	Fabrication of High-Aspect-Ratio 3D Hydrogel Microstructures Using Optically Induced Electrokinetics. Micromachines, 2016, 7, 65.	2.9	7
107	An integrated array-based emulsion droplet microfluidic device for digital loop-mediated isothermal amplification (LAMP) analysis. , 2016, , .		2
108	Dual-aptamer assay for C-reactive protein detection by using field-effect transistors on an integrated microfluidic system. , 2016, , .		2

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109	An integrated microfluidic system for antibiotic resistance gene identification capable differentiating live and dead of vancomycin-resistant enterococcus. , 2016, , .		0
110	An integrated microfluidic system for screening of peptides specific to cholangiocarcinoma (CCA) cancer cell lines using the phage display technology. , 2016, , .		0
111	A self-driven microfluidic chip through a rapid surface modification of PDMS and its application for digital loop-mediated amplification (LAMP). , 2016, , .		2
112	Integrated microfluidic system for rapid detection of influenza H1N1 virus using a sandwich-based aptamer assay. Biosensors and Bioelectronics, 2016, 82, 105-111.	10.1	70
113	A UV-sensitive hydrogel based combinatory drug delivery chip (UV gel-Drug Chip) for cancer cocktail drug screening. RSC Advances, 2016, 6, 44425-44434.	3.6	11
114	Integrated microfluidic device using a single universal aptamer to detect multiple types of influenza viruses. Biosensors and Bioelectronics, 2016, 86, 247-254.	10.1	55
115	Silver nanostructures synthesis via optically induced electrochemical deposition. Scientific Reports, 2016, 6, 28035.	3.3	19
116	Rapidly patterning micro/nano devices by directly assembling ions and nanomaterials. Scientific Reports, 2016, 6, 32106.	3.3	21
117	Demonstration of using surface plasma enhanced magneto-optic Kerr effect to implement a compact micro-optofluidic sensor. , 2016, , .		0
118	Editorial: Selected Papers from The 11 th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2016). Micro and Nano Letters, 2016, 11, 557-557.	1.3	0
119	Optically-Induced Cell Fusion on Cell Pairing Microstructures. Scientific Reports, 2016, 6, 22036.	3.3	18
120	Microfluidics in the selection of affinity reagents for the detection of cancer: paving a way towards future diagnostics. Lab on A Chip, 2016, 16, 2759-2774.	6.0	19
121	On-chip, aptamer-based sandwich assay for detection of glycated hemoglobins via magnetic beads. Biosensors and Bioelectronics, 2016, 79, 887-893.	10.1	66
122	Emerging Applications for Nanotechnology [From the Guest Editor's Desk]. IEEE Nanotechnology Magazine, 2016, 10, 3-3.	1.3	0
123	Continuous nucleus extraction by optically-induced cell lysis on a batch-type microfluidic platform. Lab on A Chip, 2016, 16, 1447-1456.	6.0	38
124	An integrated microfluidic system for diagnosis of the resistance of Helicobacter pylori to quinolone-based antibiotics. Biosensors and Bioelectronics, 2016, 78, 281-289.	10.1	24
125	Hemostasis Plug for an Electromagnetic Thermotherapy and Its Application for Liver Laceration. Annals of Biomedical Engineering, 2016, 44, 1310-1320.	2.5	1
126	Editorial: Special Section: Expanded Papers from IEEEâ€“NEMS 2015. Micro and Nano Letters, 2015, 10, 476-476.	1.3	0

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127	High-density distributed electrodes network for generation of murine induced pluripotent stem cells. , 2015, , .		0
128	An integrated microfluidic system for screening of phage-displayed peptides specific to colon cancer cells and colon cancer stem cells. Biomicrofluidics, 2015, 9, 054121.	2.4	22
129	Generation of murine induced pluripotent stem cells by using high-density distributed electrodes network. Biomicrofluidics, 2015, 9, 054107.	2.4	1
130	Continuous medium exchange and optically induced electroporation of cells in an integrated microfluidic system. Microsystems and Nanoengineering, 2015, 1, .	7.0	12
131	An integrated microfluidic system with field-effect-transistor-based biosensors for automatic highly-sensitive C-reactive protein measurement. , 2015, , .		2
132	Screening of aptamers specific to colorectal cancer cells and stem cells by utilizing On-chip Cell-SELEX. Scientific Reports, 2015, 5, 10326.	3.3	53
133	Measurement of single leukemia cell's density and mass using optically induced electric field in a microfluidics chip. Biomicrofluidics, 2015, 9, 022406.	2.4	29
134	Optimization of drug cocktail on an integrated microfluidic system. , 2015, , .		0
135	Cancer Cell-Specific Oligopeptides Selected by an Integrated Microfluidic System from a Phage Display Library for Ovarian Cancer Diagnosis. Theranostics, 2015, 5, 431-442.	10.0	24
136	Multiple influenza virulent diagnosis by utilizing a single-aptamer based microfluidic system. , 2015, , .		0
137	An integrated microfluidic system for measurement of glycated hemoglobin Levels by using an aptamerâ€“antibody assay on magnetic beads. Biosensors and Bioelectronics, 2015, 68, 397-403.	10.1	71
138	Measurement of glycated hemoglobin levels using an integrated microfluidic system. Microfluidics and Nanofluidics, 2015, 18, 613-621.	2.2	14
139	A fluorescence in situ hybridization (FISH) microfluidic platform for detection of HER2 amplification in cancer cells. Biosensors and Bioelectronics, 2015, 69, 272-279.	10.1	32
140	Optically-controlled digital electrodeposition of thin-film metals for fabrication of nano-devices. Optical Materials Express, 2015, 5, 838.	3.0	20
141	Optically-induced cell fusion on microfluidic chip utilizing locally enhanced electric field. , 2015, , .		0
142	3-D Non-UV Digital Printing of Hydrogel Microstructures by Optically Controlled Digital Electropolymerization. Journal of Microelectromechanical Systems, 2015, 24, 2128-2135.	2.5	18
143	An integrated microfluidic platform for negative selection and enrichment of cancer cells. Journal of Micromechanics and Microengineering, 2015, 25, 084007.	2.6	15
144	Selection of aptamers specific for glycated hemoglobin and total hemoglobin using on-chip SELEX. Lab on A Chip, 2015, 15, 486-494.	6.0	49

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145	Rapid detection and typing of live bacteria from human joint fluid samples by utilizing an integrated microfluidic system. Biosensors and Bioelectronics, 2015, 66, 148-154.	10.1	42
146	A microfluidic system integrated with buried optical fibers for detection of Phalaenopsis orchid pathogens. Biosensors and Bioelectronics, 2015, 63, 572-579.	10.1	30
147	Rapid and amplification-free detection of fish pathogens by utilizing a molecular beacon-based microfluidic system. Biosensors and Bioelectronics, 2015, 63, 196-203.	10.1	13
148	Rapid and Label-Free Separation of Burkitt's Lymphoma Cells from Red Blood Cells by Optically-Induced Electrokinetics. PLoS ONE, 2014, 9, e90827.	2.5	30
149	Electromagnetic Thermotherapy for Deep Organ Ablation by Using a Needle Array Under a Synchronized-Coil System. IEEE Transactions on Biomedical Engineering, 2014, 61, 2733-2739.	4.2	2
150	Carbon nanotubeâ€based hotâ€film and temperature sensor assembled by opticallyâ€induced dielectrophoresis. IET Nanobiotechnology, 2014, 8, 44-50.	3.8	12
151	(Invited) Rapid C-reactive Protein Detection with AlGaN/GaN High Electron Mobility Transistors in an Integrated Microfluidic System. ECS Transactions, 2014, 61, 95-100.	0.5	1
152	An integrated microfluidic system for rapid detection and typing of live bacteria from human joint fluidic samples. , 2014, , .		0
153	Rapid assembly of gold nanoparticle-based microstructures using optically-induced electrokinetics. Optical Materials Express, 2014, 4, 2368.	3.0	12
154	Regulating the mechanical properties of cells using a non-UV light-addressable hydrogel patterning process. , 2014, , .		2
155	Microfluidic platforms for discovery and detection of molecular biomarkers. Microfluidics and Nanofluidics, 2014, 16, 941-963.	2.2	18
156	Dielectrophoretically-assisted electroporation using light-activated virtual microelectrodes for multiple DNA transfection. Lab on A Chip, 2014, 14, 592-601.	6.0	32
157	An integrated microfluidic device utilizing vancomycin conjugated magnetic beads and nanogold-labeled specific nucleotide probes for rapid pathogen diagnosis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 809-818.	3.3	38
158	AN integrated microfluidic system using field-effect transistors for CRP detection. , 2014, , .		1
159	Magnetic nanoparticle-based immunoassay for rapid detection of influenza infections by using an integrated microfluidic system. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 819-829.	3.3	50
160	Nucleus extraction from cells by optical-induced cell lysis on a continuous flow platform. , 2014, , .		0
161	Measurement of glycated hemoglobin using an aptamer/antibody assay on an integrated microfluidic system. , 2014, , .		3
162	Rapid determination of cell mass and density using digitally controlled electric field in a microfluidic chip. Lab on A Chip, 2014, 14, 4426-4434.	6.0	42

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163	An integrated microfluidic system for diagnosis of quinolones resistance of helicobacter pylori. , 2014, , .		0
164	A continuous optically-induced cell electroporation device with on-chip medium exchange mechanisms. , 2014, , .		1
165	An integrated microfluidic system for screening of peptides specific to colon cancer cells and colon cancer stem cells using the phage display technology. , 2014, , .		1
166	Influenza A virus-specific aptamers screened by using an integrated microfluidic system. Lab on A Chip, 2014, 14, 2002-2013.	6.0	80
167	Electromagnetic Thermotherapy System With Needle Arrays: A Practical Tool for the Removal of Cancerous Tumors. IEEE Transactions on Biomedical Engineering, 2014, 61, 598-605.	4.2	5
168	Optically induced dielectropheresis sorting with automated medium exchange in an integrated optofluidic device resulting in higher cell viability. Lab on A Chip, 2014, 14, 2837-2843.	6.0	12
169	Rapid isolation and diagnosis of live bacteria from human joint fluids by using an integrated microfluidic system. Lab on A Chip, 2014, 14, 3376-3384.	6.0	27
170	Extracellular-controlled breast cancer cell formation and growth using non-UV patterned hydrogels via optically-induced electrokinetics. Lab on A Chip, 2014, 14, 1367.	6.0	42
171	Application of strong transverse magneto-optical Kerr effect on high sensitive surface plasmon grating sensors. Optics Express, 2014, 22, 19794.	3.4	31
172	Exploring pulse-voltage-triggered optically induced electrohydrodynamic instability for femtolitre droplet generation. Applied Physics Letters, 2014, 104, .	3.3	10
173	An on-chip Cell-SELEX process for automatic selection of high-affinity aptamers specific to different histologically classified ovarian cancer cells. Lab on A Chip, 2014, 14, 4017-4028.	6.0	75
174	An integrated microfluidic platform for rapid detection and subtyping of influenza viruses from clinical samples. Microfluidics and Nanofluidics, 2014, 16, 501-512.	2.2	12
175	Optically induced electrohydrodynamic instability-based micro-patterning of fluidic thin films. Microfluidics and Nanofluidics, 2014, 16, 1097-1106.	2.2	8
176	A micropump using amplified deformation of resilient membranes through oil hydraulics. Microfluidics and Nanofluidics, 2014, 17, 393-400.	2.2	3
177	An Electromagnetic Thermotherapy System with a Deep Penetration Depth for Percutaneous Thermal Ablation. Annals of Biomedical Engineering, 2014, 42, 86-96.	2.5	2
178	Rapid Fabrication of Nanomaterial Electrodes Using Digitally Controlled Electrokinetics. IEEE Nanotechnology Magazine, 2014, 13, 245-253.	2.0	15
179	An integrated microfluidic system for rapid isolation and detection of live bacteria in periprosthetic joint infections. , 2014, , .		1
180	Editorial: Special Section of Expanded Papers from NEMS 2014. Micro and Nano Letters, 2014, 9, 619-619.	1.3	0

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181	Detection of viruses directly from the fresh leaves of a Phalaenopsis orchid using a microfluidic system. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 1274-1282.	3.3	30
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