

# Gwo-Bin Lee

## List of Publications by Year in Descending Order

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

397  
papers

12,371  
citations

58  
h-index

88  
g-index

524  
ext. papers

14,129  
ext. citations

4.8  
avg. IF

6.59  
L-index

#	Paper	IF	Citations
397	Isolation and Quantification of Methylated Cell-Free DNA in Plasma on an Integrated Microfluidic System.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	1
396	Isolation and digital counting of extracellular vesicles from blood via membrane-integrated microfluidics. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 358, 131473	8.5	1
395	An Integrated Microfluidic Platform Featuring Real-Time Reverse Transcription Loop-Mediated Isothermal Amplification for Detection of COVID-19.. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 131447	8.5	2
394	Integrated Microfluidic System for Cell-Free DNA Extraction from Plasma for Mutant Gene Detection and Quantification.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	3
393	Rapid molecular diagnosis of live Mycobacterium tuberculosis on an integrated microfluidic system. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 365, 131968	8.5	2
392	Electromagnetically-driven integrated microfluidic platform using reverse transcription loop-mediated isothermal amplification for detection of severe acute respiratory syndrome coronavirus 2. <i>Analytica Chimica Acta</i> , <b>2022</b> , 340036	6.6	0
391	Isolation and quantification of extracellular vesicle-encapsulated microRNA on an integrated microfluidic platform. <i>Lab on A Chip</i> , <b>2021</b> , 21, 4660-4671	7.2	3
390	Screening aptamers targeting the cell membranes of clinical cancer tissues on an integrated microfluidic system. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 330, 129334	8.5	6
389	A miniaturized, DNA-FET biosensor-based microfluidic system for quantification of two breast cancer biomarkers. <i>Microfluidics and Nanofluidics</i> , <b>2021</b> , 25, 1	2.8	9
388	An aptamer interacting with heat shock protein 70 shows therapeutic effects and prognostic ability in serous ovarian cancer. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 23, 757-768	10.7	3
387	An integrated microfluidic system for early detection of sepsis-inducing bacteria. <i>Lab on A Chip</i> , <b>2021</b> , 21, 113-121	7.2	9
386	Rapid antimicrobial susceptibility tests on an integrated microfluidic device for precision medicine of antibiotics. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 176, 112890	11.8	4
385	An automated and portable antimicrobial susceptibility testing system for urinary tract infections. <i>Lab on A Chip</i> , <b>2021</b> , 21, 755-763	7.2	2
384	Isolation and recovery of extracellular vesicles using optically-induced dielectrophoresis on an integrated microfluidic platform. <i>Lab on A Chip</i> , <b>2021</b> , 21, 1475-1483	7.2	8
383	An integrated microfluidic platform for detection of ovarian clear cell carcinoma mRNA biomarker FXD2. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2625-2632	7.2	1
382	A multiplexed nanoliter array-based microfluidic platform for quick, automatic antimicrobial susceptibility testing. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2223-2231	7.2	4
381	Exfoliated tumor cells in bile as a promising indicator of disease status in cholangiocarcinoma. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 346, 130526	8.5	0

380	Optimization of aptamer selection on an automated microfluidic system with cancer tissues. <i>Lab on A Chip</i> , <b>2021</b> , 21, 725-734	7.2	5
379	Two-step magnetic bead-based (2MBB) techniques for immunocapture of extracellular vesicles and quantification of microRNAs for cardiovascular diseases: A pilot study. <i>PLoS ONE</i> , <b>2020</b> , 15, e0229610	3.7	12
378	An integrated microfluidic system for rapid, automatic and high-throughput staining of clinical tissue samples for diagnosis of ovarian cancer. <i>Lab on A Chip</i> , <b>2020</b> , 20, 1103-1109	7.2	13
377	Dual aptamer assay for detection of <i>Acinetobacter baumannii</i> on an electromagnetically-driven microfluidic platform. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 159, 112148	11.8	26
376	Exploring Circulating Tumor Cells in Cholangiocarcinoma Using a Novel Glycosaminoglycan Probe on a Microfluidic Platform. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901875	10.1	7
375	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> , <b>2020</b> , 20, 789-797	7.2	21
374	Aptamer probed isolation of circulating tumor cells in cholangiocarcinoma patients. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 322, 128569	8.5	4
373	Detection and isolation of free cancer cells from ascites and peritoneal lavages using optically induced electrokinetics (OEK). <i>Science Advances</i> , <b>2020</b> , 6, eaba9628	14.3	18
372	A CMOS-Based Capacitive Biosensor for Detection of a Breast Cancer MicroRNA Biomarker. <i>IEEE Open Journal of Nanotechnology</i> , <b>2020</b> , 1, 157-162	2.1	3
371	Screening of multiple hemoprotein-specific aptamers and their applications for the binding, quantification, and extraction of hemoproteins in a microfluidic system. <i>Biomicrofluidics</i> , <b>2020</b> , 14, 024110 <sup>2</sup>	3.2	1
370	An integrated microfluidic system for on-chip enrichment and quantification of circulating extracellular vesicles from whole blood. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3305-3315	7.2	32
369	An Aptamer Based Sandwich Assay for Simultaneous Detection of Multiple Cardiovascular Biomarkers on A Multilayered Integrated Microfluidic System <b>2019</b> ,		4
368	A microfluidic platform integrated with field-effect transistors for enumeration of circulating tumor cells. <i>Lab on A Chip</i> , <b>2019</b> , 19, 618-625	7.2	32
367	Bacterial detection and identification from human synovial fluids on an integrated microfluidic system. <i>Analyst, The</i> , <b>2019</b> , 144, 1210-1222	5	8
366	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> , <b>2019</b> , 296, 126647	8.5	36
365	Design and Demonstration of Tunable Amplified Sensitivity of AlGaN/GaN High Electron Mobility Transistor (HEMT)-Based Biosensors in Human Serum. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5953-5960	7.8	22
364	Generating digital drug cocktails via optical manipulation of drug-containing particles and photo-patterning of hydrogels. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1764-1771	7.2	6
363	An automated microfluidic system for selection of aptamer probes against ovarian cancer tissues. <i>Biomicrofluidics</i> , <b>2019</b> , 13, 014114	3.2	16

362	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> , <b>2019</b> , 19, 1676-1685	7.2	20
361	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> , <b>2019</b> , 19, 1277-1286	7.2	28
360	An integrated microfluidic system for antimicrobial susceptibility testing with antibiotic combination. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2699-2708	7.2	19
359	Optimization of an enzyme linked DNA aptamer assay for cardiac troponin I detection: synchronous multiple sample analysis on an integrated microfluidic platform. <i>Analyst, The</i> , <b>2019</b> , 144, 4943-4951	5	13
358	A sample-to-answer, portable platform for rapid detection of pathogens with a smartphone interface. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3804-3814	7.2	53
357	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> , <b>2019</b> , 284, 395-402	8.5	34
356	An integrated microfluidic system with field-effect-transistor sensor arrays for detecting multiple cardiovascular biomarkers from clinical samples. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 129, 155-163	11.8	37
355	Dynamic monitoring of transmembrane potential changes: a study of ion channels using an electrical double layer-gated FET biosensor. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1047-1056	7.2	11
354	Visible light induced electropolymerization of suspended hydrogel bioscaffolds in a microfluidic chip. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1371-1378	7.4	10
353	A Comprehensive Model for Whole Cell Sensing and Transmembrane Potential Measurement Using FET Biosensors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q3001-Q3008	2	11
352	An integrated microfluidic system using mannose-binding lectin for bacteria isolation and biofilm-related gene detection. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1	2.8	5
351	Integrated microfluidic system with field effect transistor for automatic detection of multiple cardiovascular biomarkers <b>2018</b> ,		1
350	An automatic integrated microfluidic system for allergy microarray chips. <i>Analyst, The</i> , <b>2018</b> , 143, 2285-2292	3.9	5
349	High sensitivity cardiac troponin I detection in physiological environment using AlGaIn/GaN High Electron Mobility Transistor (HEMT) Biosensors. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 100, 282-289	11.8	98
348	Rapid Assembly of Carbon Nanoparticles Into Electrical Elements by Optically-Induced Electroosmotic Flow. <i>IEEE Nanotechnology Magazine</i> , <b>2018</b> , 17, 1045-1052	2.6	5
347	EDL Gated FET Biosensor Array for the Investigation of Ion Channels and Bioelectric Signals of Circulating Tumor Cells. <i>ECS Transactions</i> , <b>2018</b> , 85, 15-23	1	
346	A nitrocellulose membrane-based integrated microfluidic system for bacterial detection utilizing magnetic-composite membrane microdevices and bacteria-specific aptamers. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1633-1640	7.2	21
345	Detecting miRNA biomarkers from extracellular vesicles for cardiovascular disease with a microfluidic system. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2917-2925	7.2	31

344	Aptamer-functionalized AlGa <sub>N</sub> /Ga <sub>N</sub> High-electron-mobility Transistor for Rapid Diagnosis of Fibrinogen in Human Plasma. <i>Sensors and Materials</i> , <b>2018</b> , 30, 2321	1.5	3
343	A microfluidic chip capable of generating and trapping emulsion droplets for digital loop-mediated isothermal amplification analysis. <i>Lab on A Chip</i> , <b>2018</b> , 18, 296-303	7.2	41
342	Enumeration of circulating tumor cells and investigation of cellular responses using aptamer-immobilized AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistor sensor array. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 96-104	8.5	26
341	Digital quantification of DNA via isothermal amplification on a self-driven microfluidic chip featuring hydrophilic film-coated polydimethylsiloxane. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 547-554	11.8	30
340	Thermometry of photosensitive and optically induced electrokinetics chips. <i>Microsystems and Nanoengineering</i> , <b>2018</b> , 4, 26	7.7	1
339	Microfluidic platforms for rapid screening of cancer affinity reagents by using tissue samples. <i>Biomicrofluidics</i> , <b>2018</b> , 12, 054108	3.2	12
338	An integrated microfluidic platform to perform uninterrupted SELEX cycles to screen affinity reagents specific to cardiovascular biomarkers. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 122, 104-112	11.8	35
337	Direct detection of DNA using electrical double layer gated high electron mobility transistor in high ionic strength solution with high sensitivity and specificity. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 271, 110-117	8.5	12
336	Automatic cell fusion via optically-induced dielectrophoresis and optically-induced locally-enhanced electric field on a microfluidic chip. <i>Biomicrofluidics</i> , <b>2018</b> , 12, 034108	3.2	9
335	An integrated microfluidic system for identification of live mycobacterium tuberculosis by real-time polymerase chain reaction <b>2018</b> ,		2
334	Vancomycin-resistant gene identification from live bacteria on an integrated microfluidic system by using low temperature lysis and loop-mediated isothermal amplification. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 024107	10.1	7
333	Combination of optical manipulation of particles and patterning of hydrogels for demonstration of digital drug cocktails <b>2017</b> ,		1
332	An integrated microfluidic system for live bacteria detection from human joint fluid samples by using ethidium monoazide and loop-mediated isothermal amplification. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	11
331	Editors'SChoiceField-Effect Transistor-Based Biosensors and a Portable Device for Personal Healthcare. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, Q71-Q76	2	15
330	Automatic optimization of drug cocktails on an integrated microfluidic system. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 034109	3.2	3
329	Determination of Cell Membrane Capacitance and Conductance via Optically Induced Electrokinetics. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1531-1539	2.9	42
328	Direct detection of fibrinogen in human plasma using electric-double-layer gated AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 082106	3.4	7
327	Detection of C-reactive protein on an integrated microfluidic system by utilizing field-effect transistors and aptamers. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 044105	3.2	8

3 <sup>26</sup>	Beyond the Debye length in high ionic strength solution: direct protein detection with field-effect transistors (FETs) in human serum. <i>Scientific Reports</i> , <b>2017</b> , 7, 5256	4.9	122
3 <sup>25</sup>	An integrated passive microfluidic device for rapid detection of influenza a (H1N1) virus by reverse transcription loop-mediated isothermal amplification (RT-LAMP) <b>2017</b> ,		5
3 <sup>24</sup>	Screening of peptide specific to cholangiocarcinoma cancer cells using an integrated microfluidic system and phage display technology. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	2
3 <sup>23</sup>	Automated selection of aptamers against cholangiocarcinoma cells on an integrated microfluidic platform. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 044101	3.2	22
3 <sup>22</sup>	An integrated microfluidic system for the isolation and detection of ovarian circulating tumor cells using cell selection and enrichment methods. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 034122	3.2	18
3 <sup>21</sup>	A Microfluidic Chip for Detecting Cholangiocarcinoma Cells in Human Bile. <i>Scientific Reports</i> , <b>2017</b> , 7, 4248	4.9	3
3 <sup>20</sup>	A microfluidic device for antimicrobial susceptibility testing based on a broth dilution method. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 669-678	11.8	54
3 <sup>19</sup>	Rapid identification of pathogens responsible for necrotizing fasciitis on an integrated microfluidic system. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 064108	3.2	1
3 <sup>18</sup>	Silver nanostructures synthesis via optically induced electrochemical deposition. <i>Scientific Reports</i> , <b>2016</b> , 6, 28035	4.9	14
3 <sup>17</sup>	Rapidly patterning micro/nano devices by directly assembling ions and nanomaterials. <i>Scientific Reports</i> , <b>2016</b> , 6, 32106	4.9	17
3 <sup>16</sup>	Optically-Induced Cell Fusion on Cell Pairing Microstructures. <i>Scientific Reports</i> , <b>2016</b> , 6, 22036	4.9	12
3 <sup>15</sup>	Microfluidics in the selection of affinity reagents for the detection of cancer: paving a way towards future diagnostics. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2759-74	7.2	19
3 <sup>14</sup>	On-chip, aptamer-based sandwich assay for detection of glycosylated hemoglobins via magnetic beads. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 887-93	11.8	46
3 <sup>13</sup>	Emerging Applications for Nanotechnology [From the Guest Editor's Desk]. <i>IEEE Nanotechnology Magazine</i> , <b>2016</b> , 10, 3-3	1.7	
3 <sup>12</sup>	Continuous nucleus extraction by optically-induced cell lysis on a batch-type microfluidic platform. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1447-56	7.2	28
3 <sup>11</sup>	An integrated microfluidic system for diagnosis of the resistance of <i>Helicobacter pylori</i> to quinolone-based antibiotics. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 78, 281-289	11.8	23
3 <sup>10</sup>	Hemostasis Plug for an Electromagnetic Thermo-therapy and Its Application for Liver Laceration. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 1310-20	4.7	0
3 <sup>09</sup>	Fabrication of High-Aspect-Ratio 3D Hydrogel Microstructures Using Optically Induced Electrokinetics. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	5

308	Dual-aptamer assay for C-reactive protein detection by using field-effect transistors on an integrated microfluidic system <b>2016</b> ,		2
307	A self-driven microfluidic chip through a rapid surface modification of PDMS and its application for digital loop-mediated amplification (LAMP) <b>2016</b> ,		1
306	Integrated microfluidic system for rapid detection of influenza H1N1 virus using a sandwich-based aptamer assay. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 82, 105-11	11.8	55
305	A UV-sensitive hydrogel based combinatory drug delivery chip (UV gel-Drug Chip) for cancer cocktail drug screening. <i>RSC Advances</i> , <b>2016</b> , 6, 44425-44434	3.7	10
304	Integrated microfluidic device using a single universal aptamer to detect multiple types of influenza viruses. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 247-254	11.8	38
303	An integrated microfluidic system for measurement of glycated hemoglobin levels by using an aptamer-antibody assay on magnetic beads. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 68, 397-403	11.8	56
302	Measurement of glycated hemoglobin levels using an integrated microfluidic system. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 613-621	2.8	10
301	A fluorescence in situ hybridization (FISH) microfluidic platform for detection of HER2 amplification in cancer cells. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 69, 272-9	11.8	19
300	Optically-controlled digital electrodeposition of thin-film metals for fabrication of nano-devices. <i>Optical Materials Express</i> , <b>2015</b> , 5, 838	2.6	13
299	. <i>Journal of Microelectromechanical Systems</i> , <b>2015</b> , 24, 2128-2135	2.5	12
298	An integrated microfluidic platform for negative selection and enrichment of cancer cells. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 084007	2	13
297	Selection of aptamers specific for glycated hemoglobin and total hemoglobin using on-chip SELEX. <i>Lab on A Chip</i> , <b>2015</b> , 15, 486-94	7.2	36
296	Rapid detection and typing of live bacteria from human joint fluid samples by utilizing an integrated microfluidic system. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 148-54	11.8	39
295	A microfluidic system integrated with buried optical fibers for detection of Phalaenopsis orchid pathogens. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 63, 572-579	11.8	23
294	Rapid and amplification-free detection of fish pathogens by utilizing a molecular beacon-based microfluidic system. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 63, 196-203	11.8	11
293	An integrated microfluidic system for screening of phage-displayed peptides specific to colon cancer cells and colon cancer stem cells. <i>Biomicrofluidics</i> , <b>2015</b> , 9, 054121	3.2	18
292	Generation of murine induced pluripotent stem cells by using high-density distributed electrodes network. <i>Biomicrofluidics</i> , <b>2015</b> , 9, 054107	3.2	1
291	Continuous medium exchange and optically induced electroporation of cells in an integrated microfluidic system. <i>Microsystems and Nanoengineering</i> , <b>2015</b> , 1,	7.7	9

290	An integrated microfluidic system with field-effect-transistor-based biosensors for automatic highly-sensitive C-reactive protein measurement <b>2015</b> ,		2
289	Screening of aptamers specific to colorectal cancer cells and stem cells by utilizing On-chip Cell-SELEX. <i>Scientific Reports</i> , <b>2015</b> , 5, 10326	4.9	44
288	Measurement of single leukemia cells density and mass using optically induced electric field in a microfluidics chip. <i>Biomicrofluidics</i> , <b>2015</b> , 9, 022406	3.2	17
287	Cancer cell-specific oligopeptides selected by an integrated microfluidic system from a phage display library for ovarian cancer diagnosis. <i>Theranostics</i> , <b>2015</b> , 5, 431-42	12.1	19
286	Microfluidic platforms for discovery and detection of molecular biomarkers. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 941-963	2.8	13
285	Dielectrophoretically-assisted electroporation using light-activated virtual microelectrodes for multiple DNA transfection. <i>Lab on A Chip</i> , <b>2014</b> , 14, 592-601	7.2	21
284	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> , <b>2014</b> , 10, 809-18	6	33
283	Magnetic nanoparticle-based immunoassay for rapid detection of influenza infections by using an integrated microfluidic system. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 819-29	6	46
282	Measurement of glycated hemoglobin using an aptamer/antibody assay on an integrated microfluidic system <b>2014</b> ,		2
281	Rapid determination of cell mass and density using digitally controlled electric field in a microfluidic chip. <i>Lab on A Chip</i> , <b>2014</b> , 14, 4426-34	7.2	31
280	A continuous optically-induced cell electroporation device with on-chip medium exchange mechanisms <b>2014</b> ,		1
279	Influenza A virus-specific aptamers screened by using an integrated microfluidic system. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2002-13	7.2	61
278	Electromagnetic thermotherapy system with needle arrays: a practical tool for the removal of cancerous tumors. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 598-605	5	5
277	Optically induced dielectrophoresis sorting with automated medium exchange in an integrated optofluidic device resulting in higher cell viability. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2837-43	7.2	10
276	Rapid isolation and diagnosis of live bacteria from human joint fluids by using an integrated microfluidic system. <i>Lab on A Chip</i> , <b>2014</b> , 14, 3376-84	7.2	22
275	Extracellular-controlled breast cancer cell formation and growth using non-UV patterned hydrogels via optically-induced electrokinetics. <i>Lab on A Chip</i> , <b>2014</b> , 14, 1367-76	7.2	32
274	Application of strong transverse magneto-optical Kerr effect on high sensitive surface plasmon grating sensors. <i>Optics Express</i> , <b>2014</b> , 22, 19794-802	3.3	14
273	Exploring pulse-voltage-triggered optically induced electrohydrodynamic instability for femtolitre droplet generation. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 264103	3.4	8



272	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> , <b>2014</b> , 14, 4017-28	7.2	64
271	An integrated microfluidic platform for rapid detection and subtyping of influenza viruses from clinical samples. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 501-512	2.8	11
270	Optically induced electrohydrodynamic instability-based micro-patterning of fluidic thin films. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 1097-1106	2.8	6
269	A micropump using amplified deformation of resilient membranes through oil hydraulics. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 17, 393-400	2.8	2
268	An electromagnetic thermotherapy system with a deep penetration depth for percutaneous thermal ablation. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 86-96	4.7	2
267	. <i>IEEE Nanotechnology Magazine</i> , <b>2014</b> , 13, 245-253	2.6	12
266	Rapid and label-free separation of Burkitt's lymphoma cells from red blood cells by optically-induced electrokinetics. <i>PLoS ONE</i> , <b>2014</b> , 9, e90827	3.7	21
265	Electromagnetic thermotherapy for deep organ ablation by using a needle array under a synchronized-coil system. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 2733-9	5	2
264	Carbon nanotube-based hot-film and temperature sensor assembled by optically-induced dielectrophoresis. <i>IET Nanobiotechnology</i> , <b>2014</b> , 8, 44-50	2	8
263	(Invited) Rapid C-reactive Protein Detection with AlGaN/GaN High Electron Mobility Transistors in an Integrated Microfluidic System. <i>ECS Transactions</i> , <b>2014</b> , 61, 95-100	1	
262	Rapid assembly of gold nanoparticle-based microstructures using optically-induced electrokinetics. <i>Optical Materials Express</i> , <b>2014</b> , 4, 2368	2.6	10
261	Regulating the mechanical properties of cells using a non-UV light-addressable hydrogel patterning process <b>2014</b> ,		1
260	Detection of viruses directly from the fresh leaves of a Phalaenopsis orchid using a microfluidic system. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2013</b> , 9, 1274-82	6	23
259	Analysis of energy efficiency and productivity in dry process in PCB manufacturing. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2013</b> , 14, 1213-1221	1.7	10
258	A numerical approach to energy savings in heat drying process of drilled and water-cleaned PCB. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2013</b> , 14, 891-895	1.7	3
257	Rapid isolation and detection of aquaculture pathogens in an integrated microfluidic system using loop-mediated isothermal amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 180, 96-106	8.5	41
256	Integrated three-dimensional system-on-chip for direct quantitative detection of mitochondrial DNA mutation in affected cells. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 48, 6-11	11.8	6
255	Partial nephrectomy without renal ischemia using an electromagnetic thermal surgery system in a porcine model. <i>Urology</i> , <b>2013</b> , 81, 1101-7	1.6	3

254	Simultaneous separation and concentration of micro- and nano-particles by optically induced electrokinetics. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 193, 103-111	3.9	29
253	A novel integrated microfluidic platform to perform fluorescence in situ hybridization for chromosomal analysis. <i>Microfluidics and Nanofluidics</i> , <b>2013</b> , 15, 745-752	2.8	14
252	An integrated microfluidic system for detecting human immunodeficiency virus in blood samples <b>2013</b> ,		1
251	Observation of strong transverse magneto-optical Kerr effect on surface plasmonic gratings <b>2013</b> ,		1
250	Control of machining parameters for energy and cost savings in micro-scale drilling of PCBs. <i>Journal of Cleaner Production</i> , <b>2013</b> , 54, 41-48	10.3	58
249	Diesel exhaust particle induction of IL-17A contributes to severe asthma. <i>Journal of Allergy and Clinical Immunology</i> , <b>2013</b> , 132, 1194-1204.e2	11.5	177
248	Nucleic acid amplification using microfluidic systems. <i>Lab on A Chip</i> , <b>2013</b> , 13, 1225-42	7.2	99
247	A microfluidic immunomagnetic bead-based system for the rapid detection of influenza infections: from purified virus particles to clinical specimens. <i>Biomedical Microdevices</i> , <b>2013</b> , 15, 539-51	3.7	30
246	Numerical simulation of optically-induced dielectrophoresis using a voltage-transformation-ratio model. <i>Sensors</i> , <b>2013</b> , 13, 1965-83	3.8	9
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244	An automatic microfluidic system for rapid screening of cancer stem-like cell-specific aptamers. <i>Microfluidics and Nanofluidics</i> , <b>2013</b> , 14, 753-765	2.8	32
243	A DNA methylation assay for detection of ovarian cancer cells using a HpaII/MspI digestion-based PCR assay in an integrated microfluidic system. <i>Microfluidics and Nanofluidics</i> , <b>2013</b> , 15, 575-585	2.8	22
242	An integrated microfluidic platform for rapid tumor cell isolation, counting and molecular diagnosis. <i>Biomedical Microdevices</i> , <b>2013</b> , 15, 339-52	3.7	18
241	Origin of bias-stress induced instability in organic thin-film transistors with semiconducting small-molecule/insulating polymer blend channel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1625-85	9.5	27
240	An integrated chip capable of performing sample pretreatment and nucleic acid amplification for HIV-1 detection. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 484-91	11.8	36
239	Distinguishing cells by their first-order transient motion response under an optically induced dielectrophoretic force field. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 183702	3.4	11
238	Successfully seal pancreatic end after thermal distal pancreatectomy using needle arrays in alternating electromagnetic fields. <i>Surgical Innovation</i> , <b>2013</b> , 20, 150-7	2	3
237	Non-ultraviolet-based patterning of polymer structures by optically induced electrohydrodynamic instability. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 214101	3.4	8

236	Training Pediatricians to Adhere to Asthma Guidelines. <i>Pediatric, Allergy, Immunology, and Pulmonology</i> , <b>2013</b> , 26, 110-114	0.8	4
235	Formation of Tunable, Emulsion Micro-Droplets Utilizing Flow-Focusing Channels and a Normally-Closed Micro-Valve. <i>Micromachines</i> , <b>2013</b> , 4, 306-320	3.3	8
234	Cholesterol depletion in cell membranes of human airway epithelial cells suppresses MUC5AC gene expression. <i>Yonsei Medical Journal</i> , <b>2013</b> , 54, 679-85	3	4
233	Diesel exhaust particles induce cysteine oxidation and s-glutathionylation in house dust mite induced murine asthma. <i>PLoS ONE</i> , <b>2013</b> , 8, e60632	3.7	13
232	Molecular diagnosis of periprosthetic joint infection by quantitative RT-PCR of bacterial 16S ribosomal RNA. <i>Scientific World Journal, The</i> , <b>2013</b> , 2013, 950548	2.2	13
231	Self-rotation of cells in an irrotational AC E-field in an opto-electrokinetics chip. <i>PLoS ONE</i> , <b>2013</b> , 8, e51537	3.7	44
230	An integrated microfluidic system for rapid screening of alpha-fetoprotein-specific aptamers. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 35, 50-55	11.8	79
229	Dual-row needle arrays under an electromagnetic thermotherapy system for bloodless liver resection surgery. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 824-31	5	9
228	A tunable microfluidic-based filter modulated by pneumatic pressure for separation of blood cells. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 12, 85-94	2.8	9
227	An automatic microfluidic system that continuously performs the systematic evolution of ligands by exponential enrichment. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 13, 929-939	2.8	6
226	Rapid detection of influenza infection with magnetic MnFe <sub>2</sub> O <sub>4</sub> nanoparticle-based immunoassay by using an integrated microfluidic system <b>2012</b> ,		2
225	Inducing self-rotation of Melan-a cells by ODEP <b>2012</b> ,		1
224	Size-dependent attenuation of TLR9 signaling by gold nanoparticles in macrophages. <i>Journal of Immunology</i> , <b>2012</b> , 188, 68-76	5.3	125
223	Integrated microfluidic system for HIV detection <b>2012</b> ,		2
222	Nervous necrosis virus replicates following the embryo development and dual infection with iridovirus at juvenile stage in grouper. <i>PLoS ONE</i> , <b>2012</b> , 7, e36183	3.7	35
221	Optical Spectrum and Electric Field Waveform Dependent Optically-Induced Dielectrophoretic (ODEP) Micro-Manipulation. <i>Micromachines</i> , <b>2012</b> , 3, 492-508	3.3	30
220	Integrated microfluidic system for the identification and multiple subtyping of influenza viruses by using a molecular diagnostic approach. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 13, 113-123	2.8	22
219	Sample pretreatment and nucleic acid-based detection for fast diagnosis utilizing microfluidic systems. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1367-83	4.7	10

218	Screening of aptamers on microfluidic systems for clinical applications. <i>Sensors</i> , <b>2012</b> , 12, 9514-29	3.8	48
217	Manipulation of micro-particles by flexible polymer-based optically-induced dielectrophoretic devices. <i>Optics Express</i> , <b>2012</b> , 20, 583-92	3.3	16
216	Rapid detection of live methicillin-resistant <i>Staphylococcus aureus</i> by using an integrated microfluidic system capable of ethidium monoazide pre-treatment and molecular diagnosis. <i>Biomicrofluidics</i> , <b>2012</b> , 6, 34119	3.2	21
215	An automated microfluidic chip system for detection of piscine nodavirus and characterization of its potential carrier in grouper farms. <i>PLoS ONE</i> , <b>2012</b> , 7, e42203	3.7	10
214	Micro/Nano Technologies and Their Biological and Medical Applications <b>2012</b> , 819-851		
213	Urine analysis in microfluidic devices. <i>Analyst, The</i> , <b>2011</b> , 136, 2669-88	5	40
212	An integrated microfluidic system for diagnosis and multiple subtyping of influenza virus <b>2011</b> ,		1
211	A microfluidic system for fast detection of mitochondrial DNA deletion. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2693-700.2	3.2	10
210	Electromagnetic thermotherapy using fine needles for hepatoma treatment. <i>European Journal of Surgical Oncology</i> , <b>2011</b> , 37, 604-10	3.6	14
209	Assembly of Carbon Nanotubes between Electrodes by Utilizing Optically Induced Dielectrophoresis and Dielectrophoresis. <i>Advances in OptoElectronics</i> , <b>2011</b> , 2011, 1-6	0.5	6
208	Fabrication of Micrometer- and Nanometer-Scale Polymer Structures by Visible Light Induced Dielectrophoresis (DEP) Force. <i>Micromachines</i> , <b>2011</b> , 2, 431-442	3.3	17
207	Stem cells in microfluidics. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 13401	3.2	62
206	Microfluidic cell culture chip with multiplexed medium delivery and efficient cell/scaffold loading mechanisms for high-throughput perfusion 3-dimensional cell culture-based assays. <i>Biomedical Microdevices</i> , <b>2011</b> , 13, 415-30	3.7	24
205	A suction-type microfluidic immunosensing chip for rapid detection of the dengue virus. <i>Biomedical Microdevices</i> , <b>2011</b> , 13, 585-95	3.7	23
204	Integrated microfluidic system for electrochemical sensing of glycosylated hemoglobin. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 37-45	2.8	15
203	Sample preconcentration in microfluidic devices. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 481-511	2.8	89
202	A suction-type, pneumatic microfluidic device for liquid transport and mixing. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 301-310	2.8	59
201	An integrated microfluidic system for counting of CD4+/CD8+ T lymphocytes. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 531-541	2.8	26

200	An integrated microfluidic system capable of sample pretreatment and hybridization for microarrays. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 999-1009	2.8	4
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198	A microfluidic device for chemical and mechanical stimulation of mesenchymal stem cells. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 11, 545-556	2.8	13
197	An integrated microfluidic loop-mediated-isothermal-amplification system for rapid sample pre-treatment and detection of viruses. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2045-52	11.8	76
196	Rapid detection of influenza A virus infection utilizing an immunomagnetic bead-based microfluidic system. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3900-7	11.8	72
195	A multi-functional electrochemical sensing system using microfluidic technology for the detection of urea and creatinine. <i>Electrophoresis</i> , <b>2011</b> , 32, 931-8	3.6	21
194	An equivalent electrical model for numerical analyses of ODEP manipulation <b>2011</b> ,		6
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191	Configurable assembly of DNA origami on MEMS by microfluidic device <b>2011</b> ,		2
190	A suction-type, pneumatic microfluidic device for rapid DNA extraction <b>2011</b> ,		1
189	An integrated microfluidic system for fast, automatic detection of C-reactive protein. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 157, 710-721	8.5	74
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187	Electromagnetic thermoablation to treat thrombocytopenia in cirrhotic and hypersplenic rats. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , <b>2010</b> , 25, 1578-86	4	12
186	Bloodless liver resection using needle arrays under alternating electromagnetic fields. <i>Surgical Innovation</i> , <b>2010</b> , 17, 95-100	2	10
185	Selective manipulation of microparticles using polymer-based optically induced dielectrophoretic devices. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 113302	3.4	16
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183	Electromagnetic thermal surgery system for liver resection: an animal study. <i>International Journal of Hyperthermia</i> , <b>2010</b> , 26, 604-9	3.7	7

182	A microfluidic platform for manipulation and separation of oil-in-water emulsion droplets using optically induced dielectrophoresis. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 045026	2	29
181	Miniaturization of molecular biological techniques for gene assay. <i>Analyst, The</i> , <b>2010</b> , 135, 1499-518	5	36
180	Rapid isolation and detection of cancer cells by utilizing integrated microfluidic systems. <i>Lab on A Chip</i> , <b>2010</b> , 10, 2875-86	7.2	47
179	Microfluidic cell culture systems for drug research. <i>Lab on A Chip</i> , <b>2010</b> , 10, 939-56	7.2	314
178	A magnetic bead-based three-dimensional micro-incubator for rapid purification and detection of tumor cells <b>2010</b> ,		1
177	Separation of micro-particles utilizing spatial difference of optically induced dielectrophoretic forces. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 217-229	2.8	34
176	Size-controlled synthesis of gold nanoparticles using a micro-mixing system. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 303-311	2.8	60
175	Manipulation and patterning of carbon nanotubes utilizing optically induced dielectrophoretic forces. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 609-617	2.8	31
174	Three-dimensional microfluidic chip for the extraction of mitochondrial DNA. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 9, 489-498	2.8	9
173	An integrated microfluidic chip for non-immunological determination of urinary albumin. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 887-96	3.7	10
172	An integrated cell counting and continuous cell lysis device using an optically induced electric field. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 854-860	8.5	33
171	Microfluidic device utilizing pneumatic micro-vibrators to generate alginate microbeads for microencapsulation of cells. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 755-764	8.5	26
170	The evolution of real-time PCR machines to real-time PCR chips. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1820-4	11.8	24
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166	Image-driven cell manipulation. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 3, 6-11	1.7	4
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164	A microfabricated CE chip for DNA pre-concentration and separation utilizing a normally closed valve. <i>Electrophoresis</i> , <b>2009</b> , 30, 3228-35	3.6	31
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160	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> , <b>2009</b> , 6, 823-833	2.8	69
159	Exploitation of a microfluidic device capable of generating size-tunable droplets for gene delivery. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 7, 45-56	2.8	19
158	A microfluidic platform for formation of double-emulsion droplets. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 7, 709-719	2.8	33
157	A microfluidic-based system using reverse transcription polymerase chain reactions for rapid detection of aquaculture diseases. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 7, 795-806	2.8	28
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155	An integrated microfluidic system for rapid diagnosis of dengue virus infection. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 25, 745-52	11.8	84
154	Biomedical microdevices synthesis of iron oxide nanoparticles using a microfluidic system. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 161-71	3.7	51
153	Integrated microfluidic system for electrochemical sensing of urinary proteins. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 201-11	3.7	13
152	Magnetic-bead-based microfluidic system for ribonucleic acid extraction and reverse transcription processes. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 339-50	3.7	37
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149	A microfluidic cell culture platform for real-time cellular imaging. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 903-13	3.7	26
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147	A miniaturized quantitative polymerase chain reaction system for DNA amplification and detection. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 141, 329-337	8.5	36

146	A tunable micro filter modulated by pneumatic pressure for cell separation. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 142, 389-399	8.5	32
145	An integrated microfluidic system for C-reactive protein measurement. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 3091-6	11.8	69
144	A vortex-type micromixer utilizing pneumatically driven membranes. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 035020	2	52
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142	Manipulation of single DNA molecules by using optically projected images. <i>Optics Express</i> , <b>2009</b> , 17, 15318-29	3.29	29
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139	Contiunous Micro-Particle Separation using Optically-Induced Dielectrophoretic Forces <b>2009</b> ,		1
138	<b>2009</b> ,		1
137	Manipulation of Biosamples and Microparticles using Optical Images on Polymer Devices <b>2009</b> ,		3
136	Pneumatically driven micro-dispenser for sub-micro-liter pipetting. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 035027	2	6
135	A Magnetic-Bead Based Microfluidic System for Automatic C-Reactive Protein Detection <b>2009</b> ,		1
134	High Frequency Electromagnetic Thermotherapy for Cancer Treatment. <i>IFMBE Proceedings</i> , <b>2009</b> , 574-577	2	
133	An integrated microfluidic system using magnetic beads for virus detection. <i>Diagnostic Microbiology and Infectious Disease</i> , <b>2008</b> , 60, 51-8	2.9	36
132	A microfluidic device for precise pipetting. <i>Journal of Micromechanics and Microengineering</i> , <b>2008</b> , 18, 035004	2	8
131	Microfabricated Flow Cytometers for Bacterial Detection <b>2008</b> , 869-893		
130	Droplet Formation Utilizing Controllable Moving-Wall Structures for Double-Emulsion Applications. <i>Journal of Microelectromechanical Systems</i> , <b>2008</b> , 17, 573-581	2.5	29
129	Microfluidic Systems Integrated With a Sample Pretreatment Device for Fast Nucleic-Acid Amplification. <i>Journal of Microelectromechanical Systems</i> , <b>2008</b> , 17, 288-301	2.5	25



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126	. <i>Journal of Microelectromechanical Systems</i> , <b>2008</b> , 17, 548-557	2.5	4
125	A high throughput perfusion-based microbioreactor platform integrated with pneumatic micropumps for three-dimensional cell culture. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 309-19	3.7	81
124	A microfluidic chip for formation and collection of emulsion droplets utilizing active pneumatic micro-choppers and micro-switches. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 749-56	3.7	21
123	Microcapillary electrophoresis chips utilizing controllable micro-lens structures and buried optical fibers for on-line optical detection. <i>Electrophoresis</i> , <b>2008</b> , 29, 1866-73	3.6	20
122	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> , <b>2008</b> , 129, 231-240	8.5	58
121	Enhancement of thermal uniformity for a microthermal cycler and its application for polymerase chain reaction. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 848-856	8.5	46
120	A cell delivery and pre-positioning system utilizing microfluidic devices for dual-beam optical trap-and-stretch. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 135, 388-397	8.5	28
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117	Purification and enrichment of virus samples utilizing magnetic beads on a microfluidic system. <i>Lab on A Chip</i> , <b>2007</b> , 7, 868-75	7.2	90
116	Hyperthermia Cancer Therapy Utilizing Superparamagnetic Nanoparticles <b>2007</b> ,		3
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114	Microfluidic systems integrated with two-dimensional surface plasmon resonance phase imaging systems for microarray immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 23, 466-72	11.8	106
113	A microfluidic system utilizing molecularly imprinted polymer films for amperometric detection of morphine. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 576-582	8.5	75
112	Automatic microfluidic platform for cell separation and nucleus collection. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 533-43	3.7	49
111	Membrane-activated microfluidic rotary devices for pumping and mixing. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 545-54	3.7	57

110	Multiple-channel emulsion chips utilizing pneumatic choppers for biotechnology applications. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 833-43	3.7	11
109	Integrated reverse transcription polymerase chain reaction systems for virus detection. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1739-48	11.8	101
108	Integrated microfluidic systems for automatic glucose sensing and insulin injection. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 461-468	8.5	62
107	A microfluidic system for automatic cell culture. <i>Journal of Micromechanics and Microengineering</i> , <b>2007</b> , 17, 1266-1274	2	49
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5	A New Microfluidic Chip for Formation of Micro-Droplets in Liquids Utilizing Active Pneumatic Choppers		1
4	Stress-Induced Bending of Micromachined Bilayer Cantilever and Its Optical Application		2
3	M/spl times/N micro flow switches using electrokinetic forces		1

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