

# Je-Kyun Park

## List of Publications by Year in descending order

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204  
papers

7,546  
citations

41258

49  
h-index

66788

78  
g-index

214  
all docs

214  
docs citations

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times ranked

8236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Microextrusion Printing of a Low Viscosity Hydrogel on a Supportive Microstructured Bioprinting Substrate for the Vasculogenesis of Endothelial Cells. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	4
2	Bioprinting of heterogeneous and multilayered cell-hydrogel constructs using continuous multi-material printing and aerosol-based crosslinking. <i>STAR Protocols</i> , 2022, 3, 101303.	0.5	6
3	Integrated pumpless microfluidic chip for the detection of foodborne pathogens by polymerase chain reaction and electrochemical analysis. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129130.	4.0	24
4	Inertial Microfluidics-Based Separation of Microalgae Using a Contraction-Expansion Array Microchannel. <i>Micromachines</i> , 2021, 12, 97.	1.4	14
5	Droplet contact-based spheroid transfer technique as a multi-step assay tool for spheroid arrays. <i>Lab on A Chip</i> , 2021, 21, 4155-4165.	3.1	5
6	Assembly and Disassembly of the Micropatterned Collagen Sheets Containing Cells for Location-Based Cellular Function Analysis. <i>Biochip Journal</i> , 2021, 15, 77-89.	2.5	4
7	Pushbutton-activated microfluidic dispenser for droplet digital PCR. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113159.	5.3	30
8	Pushbutton-activated microfluidic cartridge as a user-friendly sample preparation tool for diagnostics. <i>Biomicrofluidics</i> , 2021, 15, 041302.	1.2	0
9	Label-free monitoring of 3D cortical neuronal growth in vitro using optical diffraction tomography. <i>Biomedical Optics Express</i> , 2021, 12, 6928.	1.5	5
10	Multilayered and heterogeneous hydrogel construct printing system with crosslinking aerosol. <i>Biofabrication</i> , 2021, 13, 045027.	3.7	8
11	Biomarker barcodes: multiplexed microfluidic immunohistochemistry enables high-throughput analysis of tissue microarray. <i>Lab on A Chip</i> , 2021, 21, 3471-3482.	3.1	11
12	Construction of a Fibroblast-Associated Tumor Spheroid Model Based on a Collagen Drop Array Chip. <i>Biosensors</i> , 2021, 11, 506.	2.3	4
13	Modular 3D In Vitro Artery-Mimicking Multichannel System for Recapitulating Vascular Stenosis and Inflammation. <i>Micromachines</i> , 2021, 12, 1528.	1.4	8
14	Controlled 3D co-culture of beta cells and endothelial cells in a micropatterned collagen sheet for reproducible construction of an improved pancreatic pseudo-tissue. <i>APL Bioengineering</i> , 2020, 4, 046103.	3.3	11
15	Microfluidic channel-integrated hanging drop array chip operated by pushbuttons for spheroid culture and analysis. <i>Analyst</i> , The, 2020, 145, 6974-6980.	1.7	13
16	Fabrication of a Perfusable 3D In Vitro Artery-Mimicking Multichannel System for Artery Disease Models. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5326-5336.	2.6	12
17	On-site extraction and purification of bacterial nucleic acids from blood samples using an unpowered microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128346.	4.0	17
18	Reciprocating flow-assisted nucleic acid purification using a finger-actuated microfluidic device. <i>Lab on A Chip</i> , 2020, 20, 3346-3353.	3.1	19

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19	Towards practical sample preparation in point-of-care testing: user-friendly microfluidic devices. <i>Lab on A Chip</i> , 2020, 20, 1191-1203.	3.1	107
20	Light Gradient-Based Screening of <i>Arabidopsis thaliana</i> on a 384-Well Type Plant Array Chip. <i>Micromachines</i> , 2020, 11, 191.	1.4	1
21	Colorimetric Detection of <i>Escherichia coli</i> O157:H7 with Signal Enhancement Using Size-Based Filtration on a Finger-Powered Microfluidic Device. <i>Sensors</i> , 2020, 20, 2267.	2.1	16
22	Vertically sheathing laminar flow-based immunoassay using simultaneous diffusion-driven immune reactions. <i>RSC Advances</i> , 2019, 9, 23791-23796.	1.7	3
23	Integrated microfluidic pumps and valves operated by finger actuation. <i>Lab on A Chip</i> , 2019, 19, 2973-2977.	3.1	42
24	Finger-Actuated Microfluidic Display for Smart Blood Typing. <i>Analytical Chemistry</i> , 2019, 91, 11636-11642.	3.2	34
25	Finger-Actuated Microfluidic Concentration Gradient Generator Compatible with a Microplate. <i>Micromachines</i> , 2019, 10, 174.	1.4	19
26	Design criteria and standardization of a microfluidic cell culture system for investigating cellular migration. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 043003.	1.5	3
27	Chips-on-a-plate device for monitoring cellular migration in a microchannel-based intestinal follicle-associated epithelium model. <i>Biomicrofluidics</i> , 2019, 13, 064127.	1.2	1
28	Hand-Maneuverable Collagen Sheet with Micropatterns for 3D Modular Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 339-345.	2.6	10
29	Finger-actuated microfluidic device for the blood cross-matching test. <i>Lab on A Chip</i> , 2018, 18, 1215-1222.	3.1	58
30	Toxicity Assessment of Iron Oxide Nanoparticles Based on Cellular Magnetic Loading Using Magnetophoretic Sorting in a Trapezoidal Microchannel. <i>Analytical Chemistry</i> , 2018, 90, 920-927.	3.2	10
31	Multiplexed Detection of Foodborne Pathogens from Contaminated Lettuces Using a Handheld Multistep Lateral Flow Assay Device. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 290-297.	2.4	50
32	Inertial Microfluidics-Based Cell Sorting. <i>Biochip Journal</i> , 2018, 12, 257-267.	2.5	55
33	Microfluidic on-chip immunohistochemistry directly from a paraffin-embedded section. <i>Biomicrofluidics</i> , 2018, 12, 044110.	1.2	1
34	High-throughput culture and embedment of spheroid array using droplet contact-based spheroid transfer. <i>Biomicrofluidics</i> , 2018, 12, 044109.	1.2	13
35	Foldable paper-based analytical device for the detection of an acetylcholinesterase inhibitor using an angle-based readout. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 322-327.	4.0	14
36	Optoelectrofluidic printing system for fabricating hydrogel sheets with on-demand patterned cells and microparticles. <i>Biofabrication</i> , 2017, 9, 015011.	3.7	10

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37	Pipetting-driven microfluidic immunohistochemistry to facilitate enhanced immunoreaction and effective use of antibodies. <i>Lab on A Chip</i> , 2017, 17, 702-709.	3.1	18
38	Pressed region integrated 3D paper-based microfluidic device that enables vertical flow multistep assays for the detection of C-reactive protein based on programmed reagent loading. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 1049-1055.	4.0	55
39	Label-Free Sensing: Extraordinary Figure-of-Merit of Magnetic Resonance from Ultrathin Silicon Nanohole Membrane as All-Dielectric Metamaterial ( <i>Advanced Optical Materials</i> 3/2017). <i>Advanced Optical Materials</i> , 2017, 5, .	3.6	0
40	Lateral flow assay-based bacterial detection using engineered cell wall binding domains of a phage endolysin. <i>Biosensors and Bioelectronics</i> , 2017, 96, 173-177.	5.3	84
41	A Microfluidic Immunostaining System Enables Quality Assured and Standardized Immunohistochemical Biomarker Analysis. <i>Scientific Reports</i> , 2017, 7, 45968.	1.6	20
42	A magnetophoresis-based microfluidic detection platform under a static-fluid environment. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	4
43	Assembly of hydrogel units for 3D microenvironment in a poly(dimethylsiloxane) channel. <i>Micro and Nano Systems Letters</i> , 2017, 5, .	1.7	3
44	Microfabricated cell culture system for the live cell observation of the multilayered proliferation of undifferentiated HT-29 cells. <i>Biochip Journal</i> , 2017, 11, 308-315.	2.5	7
45	Demonstration of Interposed Modular Hydrogel Sheet for Multicellular Analysis in a Microfluidic Assembly Platform. <i>Scientific Reports</i> , 2017, 7, 1289.	1.6	3
46	Plant array chip for the germination and growth screening of <i>Arabidopsis thaliana</i> . <i>Lab on A Chip</i> , 2017, 17, 3071-3077.	3.1	14
47	Extraordinary Figure-of-Merit of Magnetic Resonance from Ultrathin Silicon Nanohole Membrane as All-Dielectric Metamaterial. <i>Advanced Optical Materials</i> , 2017, 5, 1600628.	3.6	4
48	Organic Solvent and Surfactant Resistant Paper-Fluidic Devices Fabricated by One-Step Embossing of Nonwoven Polypropylene Sheet. <i>Micromachines</i> , 2017, 8, 30.	1.4	8
49	Visualization and label-free quantification of microfluidic mixing using quantitative phase imaging. <i>Applied Optics</i> , 2017, 56, 6341.	0.9	5
50	Magnetophoretic Sorting of Single Cell-Containing Microdroplets. <i>Micromachines</i> , 2016, 7, 56.	1.4	24
51	Experimental Analysis of Porosity and Permeability in Pressed Paper. <i>Micromachines</i> , 2016, 7, 48.	1.4	21
52	On-chip generation of monodisperse giant unilamellar lipid vesicles containing quantum dots. <i>Electrophoresis</i> , 2016, 37, 1353-1358.	1.3	6
53	Microarray-integrated optoelectrofluidic immunoassay system. <i>Biomicrofluidics</i> , 2016, 10, 034106.	1.2	7
54	Functional Packaging of Lateral Flow Strip Allows Simple Delivery of Multiple Reagents for Multistep Assays. <i>Analytical Chemistry</i> , 2016, 88, 10374-10378.	3.2	33

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55	Construction of Modular Hydrogel Sheets for Micropatterned Macro-scaled 3D Cellular Architecture. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	3
56	Freestanding stacked mesh-like hydrogel sheets enable the creation of complex macroscale cellular scaffolds. <i>Biotechnology Journal</i> , 2016, 11, 585-591.	1.8	21
57	Optoelectrofluidic enhanced immunoreaction based on optically-induced dynamic AC electroosmosis. <i>Lab on A Chip</i> , 2016, 16, 1189-1196.	3.1	23
58	Pressed Paper-Based Dipstick for Detection of Foodborne Pathogens with Multistep Reactions. <i>Analytical Chemistry</i> , 2016, 88, 3781-3788.	3.2	89
59	Automated Measurement of Multiple Cancer Biomarkers Using Quantum-Dot-Based Microfluidic Immunohistochemistry. <i>Analytical Chemistry</i> , 2015, 87, 4177-4183.	3.2	26
60	User-friendly 3D bioassays with cell-containing hydrogel modules: narrowing the gap between microfluidic bioassays and clinical end-users' needs. <i>Lab on A Chip</i> , 2015, 15, 2379-2387.	3.1	24
61	A fully automated analyzer for multiple detection of allergen-specific immunoglobulin E. <i>Analytical Methods</i> , 2015, 7, 8889-8895.	1.3	4
62	Phenotypic Modulation of Primary Vascular Smooth Muscle Cells by Short-Term Culture on Micropatterned Substrate. <i>PLoS ONE</i> , 2014, 9, e88089.	1.1	69
63	Rapid one-step purification of single cells encapsulated in alginate microcapsules from oil to aqueous phase using a hydrophobic filter paper: Implications for single cell experiments. <i>Biotechnology Journal</i> , 2014, 9, 1233-1240.	1.8	15
64	Programmed sample delivery on a pressurized paper. <i>Biomicrofluidics</i> , 2014, 8, 054121.	1.2	52
65	Enhanced blood plasma separation by modulation of inertial lift force. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 311-317.	4.0	44
66	A quantum dot-based microfluidic multi-window platform for quantifying the biomarkers of breast cancer cells. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 430.	0.6	7
67	Inertia-activated cell sorting of immune-specifically labeled cells in a microfluidic device. <i>RSC Advances</i> , 2014, 4, 39140-39144.	1.7	17
68	Geometric effect of the hydrogel grid structure on in vitro formation of homogeneous MIN6 cell clusters. <i>Lab on A Chip</i> , 2014, 14, 2183-2190.	3.1	14
69	Quantum dot-based immunoassay enhanced by high-density vertical ZnO nanowire array. <i>Biosensors and Bioelectronics</i> , 2014, 55, 209-215.	5.3	36
70	In Situ Analysis of Heterogeneity in the Lipid Content of Single Green Microalgae in Alginate Hydrogel Microcapsules. <i>Analytical Chemistry</i> , 2013, 85, 8749-8756.	3.2	44
71	High-throughput nanoscale lipid vesicle synthesis in a semicircular contraction-expansion array microchannel. <i>Biochip Journal</i> , 2013, 7, 210-217.	2.5	16
72	One-step preparation of magnetic Janus particles using controlled phase separation of polymer blends and nanoparticles. <i>RSC Advances</i> , 2013, 3, 11801.	1.7	48

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73	Editorial: Nanobio versus Bionano – what's in a name?. <i>Biotechnology Journal</i> , 2013, 8, 158-159.	1.8	11
74	Label-Free Cancer Cell Separation from Human Whole Blood Using Inertial Microfluidics at Low Shear Stress. <i>Analytical Chemistry</i> , 2013, 85, 6213-6218.	3.2	180
75	Optoelectrofluidic behavior of metal-polymer hybrid colloidal particles. <i>Applied Physics Letters</i> , 2013, 102, 054105.	1.5	9
76	Quantitative estimation of the lipid productivity of single algae cells in alginate hydrogel microbeads. , 2013, , .		1
77	Reduction in microparticle adsorption using a lateral interconnection method in a <sc>PDMS</sc>-based microfluidic device. <i>Electrophoresis</i> , 2013, 34, 3119-3125.	1.3	7
78	Quantum dot labeled immunoassay using zinc oxide nanowires. , 2013, , .		0
79	Accurate quantification of multiple biomarkers using microfluidic determination of tumor-specific antigenic sites. , 2013, , .		0
80	Dielectrophoresis in a Slanted Microchannel for Separation of Microparticles and Bacteria. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7993-7997.	0.9	11
81	Breast Cancer Diagnostics Using Microfluidic Multiplexed Immunohistochemistry. <i>Methods in Molecular Biology</i> , 2013, 949, 349-364.	0.4	9
82	Mesh-integrated microdroplet array for simultaneous merging and storage of single-cell droplets. <i>Lab on A Chip</i> , 2012, 12, 1594.	3.1	31
83	Reliable permeability assay system in a microfluidic device mimicking cerebral vasculatures. <i>Biomedical Microdevices</i> , 2012, 14, 1141-1148.	1.4	109
84	Tissue Reconstruction: Cellular Hydrogel Biopaper for Patterned 3D Cell Culture and Modular Tissue Reconstruction ( <i>Adv. Healthcare Mater.</i> 5/2012). <i>Advanced Healthcare Materials</i> , 2012, 1, 530-530.	3.9	0
85	Label-Free Cell Separation Using a Tunable Magnetophoretic Repulsion Force. <i>Analytical Chemistry</i> , 2012, 84, 3075-3081.	3.2	110
86	Cellular Hydrogel Biopaper for Patterned 3D Cell Culture and Modular Tissue Reconstruction. <i>Advanced Healthcare Materials</i> , 2012, 1, 635-639.	3.9	33
87	Paper on a disc: balancing the capillary-driven flow with a centrifugal force. <i>Lab on A Chip</i> , 2011, 11, 3404.	3.1	49
88	10th Anniversary Issue: Korea. <i>Lab on A Chip</i> , 2011, 11, 23-24.	3.1	2
89	Facile and Biocompatible Fabrication of Chemically Sol-Gel Transitional Hydrogel Free-Standing Microarchitectures. <i>Biomacromolecules</i> , 2011, 12, 14-18.	2.6	16
90	Hydrophoretic high-throughput selection of platelets in physiological shear-stress range. <i>Lab on A Chip</i> , 2011, 11, 413-418.	3.1	70

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91	Optoelectrofluidic platforms for chemistry and biology. Lab on A Chip, 2011, 11, 33-47.	3.1	92
92	Versatile immunoassays based on isomagnetophoresis. Lab on A Chip, 2011, 11, 2045.	3.1	28
93	In situ dynamic measurements of the enhanced SERS signal using an optoelectrofluidic SERS platform. Lab on A Chip, 2011, 11, 2518.	3.1	52
94	A simple and smart telemedicine device for developing regions: a pocket-sized colorimetric reader. Lab on A Chip, 2011, 11, 120-126.	3.1	102
95	Optoelectrofluidic Manipulation of Nanoparticles and Biomolecules. Advances in OptoElectronics, 2011, 2011, 1-13.	0.6	7
96	Quantitative proteomic profiling of breast cancers using a multiplexed microfluidic platform for immunohistochemistry and immunocytochemistry. Biomaterials, 2011, 32, 1396-1403.	5.7	27
97	Inertial separation in a contraction-expansion array microchannel. Journal of Chromatography A, 2011, 1218, 4138-4143.	1.8	108
98	Mechanical stimulation of bovine embryos in a microfluidic culture platform. Biochip Journal, 2011, 5, 106-113.	2.5	18
99	Inertial blood plasma separation in a contraction-expansion array microchannel. Applied Physics Letters, 2011, 98, .	1.5	76
100	Microbridge structures for uniform interval control of flowing droplets in microfluidic networks. Biomicrofluidics, 2011, 5, 34117-341179.	1.2	14
101	Self-reference extended depth-of-field quantitative phase microscopy. Proceedings of SPIE, 2010, , .	0.8	1
102	Rapid multivortex mixing in an alternately formed contraction-expansion array microchannel. Biomedical Microdevices, 2010, 12, 1019-1026.	1.4	29
103	Hepatotoxicity assay using human hepatocytes trapped in microholes of a microfluidic device. Electrophoresis, 2010, 31, 3167-3174.	1.3	12
104	On-demand three-dimensional freeform fabrication of multi-layered hydrogel scaffold with fluidic channels. Biotechnology and Bioengineering, 2010, 105, 1178-1186.	1.7	236
105	Plasma extraction in a capillary-driven microfluidic device using surfactant-added poly(dimethylsiloxane). Sensors and Actuators B: Chemical, 2010, 145, 861-868.	4.0	42
106	Microfluidic Rheometer for Characterization of Protein Unfolding and Aggregation in Microflows. Small, 2010, 6, 1306-1310.	5.2	42
107	Breast Cancer Diagnosis Using a Microfluidic Multiplexed Immunohistochemistry Platform. PLoS ONE, 2010, 5, e10441.	1.1	71
108	Preclinical Analysis of Irreversible Electroporation on Rat Liver Tissues Using a Microfabricated Electroporator. Tissue Engineering - Part C: Methods, 2010, 16, 1245-1253.	1.1	18

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109	Two-step photolithography to fabricate multilevel microchannels. <i>Biomicrofluidics</i> , 2010, 4, 46503.	1.2	32
110	Microfluidic parallel circuit for measurement of hydraulic resistance. <i>Biomicrofluidics</i> , 2010, 4, .	1.2	37
111	Lab-on-a-Chip Technology for Integrative Bioengineering. , 2010, , .		1
112	Random breakup of microdroplets for single-cell encapsulation. <i>Applied Physics Letters</i> , 2010, 97, 153703.	1.5	29
113	Optoelectrofluidic Sandwich Immunoassays for Detection of Human Tumor Marker Using Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2010, 82, 7603-7610.	3.2	61
114	Hydrophoretic Separation Method Applicable to Biological Samples. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010, , 577-594.	0.5	0
115	Self-reference quantitative phase microscopy for microfluidic devices. <i>Optics Letters</i> , 2010, 35, 514.	1.7	92
116	Optical path-length modulation for three-dimensional particle measurement in mirror-embedded microchannels. <i>Lab on A Chip</i> , 2010, 10, 335-340.	3.1	10
117	Microfluidic immunocytochemical staining system for efficient immunoreaction. , 2010, , .		0
118	On-demand three-dimensional freeform fabrication of multi-layered hydrogel scaffold with fluidic channels. <i>Biotechnology and Bioengineering</i> , 2010, , n/a-n/a.	1.7	1
119	Programmable Cell Manipulation Using Lab-on-a-Display. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010, , 595-613.	0.5	0
120	Abstract 3992: Proteomic profiling of breast tumors using a microfluidic quantitative immunohistochemistry platform. , 2010, , .		0
121	Focusing Particles Without Sheath Flows in Microflow Cytometers. , 2010, , .		0
122	Biomedical microdevice for analyzing the effect of electrochemotherapy on cancer cells. , 2009, , .		0
123	Dynamic control of local molecular concentration using optoelectrofluidic fluorescence microscopy. , 2009, , .		0
124	Generation and manipulation of droplets in an optoelectrofluidic device integrated with microfluidic channels. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	18
125	Biological Applications of Programmable Optoelectrofluidic Manipulation. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1173, 20.	0.1	0
126	Enhanced discrimination of normal oocytes using optically induced pulling-up dielectrophoretic force. <i>Biomicrofluidics</i> , 2009, 3, 014103.	1.2	69



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127	A microfluidic <i>in vitro</i> cultivation system for mechanical stimulation of bovine embryos. <i>Electrophoresis</i> , 2009, 30, 3276-3282.	1.3	67
128	On-chip testing device for electrochemotherapeutic effects on human breast cells. <i>Biomedical Microdevices</i> , 2009, 11, 151-159.	1.4	16
129	Microfluidics: Small 19/2009. <i>Small</i> , 2009, 5, NA-NA.	5.2	1
130	Magnetic Nanoclusters for Ultrasensitive Magnetophoretic Assays. <i>Small</i> , 2009, 5, 2243-2246.	5.2	12
131	Optically Coated Mirror-Embedded Microchannel to Measure Hydrophoretic Particle Ordering in Three Dimensions. <i>Small</i> , 2009, 5, 2205-2211.	5.2	23
132	Magnetophoretic position detection for multiplexed immunoassay using colored microspheres in a microchannel. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1870-1876.	5.3	18
133	Multi-layered culture of human skin fibroblasts and keratinocytes through three-dimensional freeform fabrication. <i>Biomaterials</i> , 2009, 30, 1587-1595.	5.7	502
134	Dynamic Light-Activated Control of Local Chemical Concentration in a Fluid. <i>Analytical Chemistry</i> , 2009, 81, 5865-5870.	3.2	25
135	Hydrophoretic Sorting of Micrometer and Submicrometer Particles Using Anisotropic Microfluidic Obstacles. <i>Analytical Chemistry</i> , 2009, 81, 50-55.	3.2	61
136	Optoelectrofluidic Control of Colloidal Assembly in an Optically Induced Electric Field. <i>Langmuir</i> , 2009, 25, 6010-6014.	1.6	27
137	Microfluidic Pycnometer for in Situ Analysis of Fluids in Microchannels. <i>Analytical Chemistry</i> , 2009, 81, 2569-2574.	3.2	3
138	Measurement of Molecular Diffusion Based on Optoelectrofluidic Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2009, 81, 9163-9167.	3.2	20
139	Drug Permeability Assay Using Microhole-Trapped Cells in a Microfluidic Device. <i>Analytical Chemistry</i> , 2009, 81, 1944-1951.	3.2	42
140	Microdevice for Analyzing the Effect of Electrochemotherapy on Cancer Cells. <i>Analytical Chemistry</i> , 2009, 81, 3517-3522.	3.2	7
141	Fabrication of a poly(dimethylsiloxane) membrane with well-defined through-holes for three-dimensional microfluidic networks. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 045027.	1.5	27
142	Rapid laminating mixer using a contraction-expansion array microchannel. <i>Applied Physics Letters</i> , 2009, 95, 051902.	1.5	42
143	Direct rapid prototyping of PDMS from a photomask film for micropatterning of biomolecules and cells. <i>Lab on A Chip</i> , 2009, 9, 167-170.	3.1	43
144	Microfluidic Self-Sorting of Mammalian Cells to Achieve Cell Cycle Synchrony by Hydrophoresis. <i>Analytical Chemistry</i> , 2009, 81, 1964-1968.	3.2	90

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145	Rapid and selective concentration of microparticles in an optoelectrofluidic platform. Lab on A Chip, 2009, 9, 199-206.	3.1	80
146	A microfluidic abacus channel for controlling the addition of droplets. Lab on A Chip, 2009, 9, 207-212.	3.1	27
147	Three-dimensional hydrodynamic focusing with a single sheath flow in a single-layer microfluidic device. Lab on A Chip, 2009, 9, 3155.	3.1	107
148	A power-free blood plasma extraction device based on planar crossflow filter microstructure. , 2009, , .		1
149	Tuneable hydrophoretic separation using elastic deformation of poly(dimethylsiloxane). Lab on A Chip, 2009, 9, 1962.	3.1	34
150	Three-dimensional bioprinting of rat embryonic neural cells. NeuroReport, 2009, 20, 798-803.	0.6	154
151	Dielectrophoretic oocyte selection chip for in vitro fertilization. Biomedical Microdevices, 2008, 10, 337-345.	1.4	52
152	Continuous generation of hydrogel beads and encapsulation of biological materials using a microfluidic droplet-merging channel. Microfluidics and Nanofluidics, 2008, 5, 541-549.	1.0	85
153	Sheathless Focusing of Microbeads and Blood Cells Based on Hydrophoresis. Small, 2008, 4, 634-641.	5.2	93
154	Interactive manipulation of blood cells using a lensâ€integrated liquid crystal display based optoelectronic tweezers system. Electrophoresis, 2008, 29, 1203-1212.	1.3	90
155	Microvalveâ€assisted patterning platform for measuring cellular dynamics based on 3D cell culture. Biotechnology and Bioengineering, 2008, 101, 1005-1013.	1.7	21
156	Biomechanical analysis of cancerous and normal cells based on bulge generation in a microfluidic device. Analyst, The, 2008, 133, 1432.	1.7	30
157	Isomagnetophoresis to Discriminate Subtle Difference in Magnetic Susceptibility. Journal of the American Chemical Society, 2008, 130, 396-397.	6.6	37
158	Mirror-embedded microchannel for three-dimensional measurement of particle position. Applied Physics Letters, 2008, 93, 191909.	1.5	7
159	Analysis of pressure-driven air bubble elimination in a microfluidic device. Lab on A Chip, 2008, 8, 176-178.	3.1	81
160	Experimental Investigation of Electrostatic Particleâ€Particle Interactions in Optoelectronic Tweezers. Journal of Physical Chemistry B, 2008, 112, 9903-9908.	1.2	40
161	Sheathless Hydrophoretic Particle Focusing in a Microchannel with Exponentially Increasing Obstacle Arrays. Analytical Chemistry, 2008, 80, 3035-3039.	3.2	56
162	Microfluidic Self-Assembly of Insulin Monomers into Amyloid Fibrils on a Solid Surface. Langmuir, 2008, 24, 7068-7071.	1.6	29

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163	Reduction of nonspecific surface-particle interactions in optoelectronic tweezers. Applied Physics Letters, 2008, 92, 024108.	1.5	28
164	Programmable manipulation of motile cells in optoelectronic tweezers using a grayscale image. Applied Physics Letters, 2008, 93, .	1.5	47
165	Microfluidic Micropillar Arrays for 3D Cell Culture. Open Biotechnology Journal, 2008, 2, 224-228.	0.6	7
166	Compressive Cell Stimulation using PDMS Membrane Deflection in a Microfluidic Device. , 2007, , .		0
167	Hydrophoresis: A New -Phoretic Method for High-Resolution Particle Separation. , 2007, , .		1
168	Continuous blood cell separation by hydrophoretic filtration. Lab on A Chip, 2007, 7, 1532.	3.1	177
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