Soo Hyeon Kim

List of Publications by Year
in descending order

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		623734	526287
37	827	14	27
papers	citations	h-index	g-index

38	38	38	1233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large-scale femtoliter droplet array for digital counting of single biomolecules. Lab on A Chip, 2012, 12, 4986.	6.0	185
2	Arrayed lipid bilayer chambers allow single-molecule analysis of membrane transporter activity. Nature Communications, 2014, 5, 4519.	12.8	101
3	Electroactive Microwell Arrays for Highly Efficient Singleâ€Cell Trapping and Analysis. Small, 2011, 7, 3239-3247.	10.0	90
4	Label-free single-cell separation and imaging of cancer cells using an integrated microfluidic system. Scientific Reports, 2017, 7, 46507.	3.3	70
5	Efficient analysis of a small number of cancer cells at the single-cell level using an electroactive double-well array. Lab on A Chip, 2016, 16, 2440-2449.	6.0	52
6	A single-cell drug efflux assay in bacteria by using a directly accessible femtoliter droplet array. Lab on A Chip, 2012, 12, 3923.	6.0	48
7	Highly efficient single cell arraying by integrating acoustophoretic cell pre-concentration and dielectrophoretic cell trapping. Lab on A Chip, 2015, 15, 4356-4363.	6.0	41
8	An electroactive microwell array for trapping and lysing single-bacterial cells. Biomicrofluidics, 2011, 5, 24114.	2.4	23
9	Cancer Cell Analyses at the Single Cell-Level Using Electroactive Microwell Array Device. PLoS ONE, 2015, 10, e0139980.	2.5	23
10	Comprehensive chemical secretory measurement of single cells trapped in a micro-droplet array with mass spectrometry. RSC Advances, 2015, 5, 16968-16971.	3.6	22
11	Cancer marker-free enrichment and direct mutation detection in rare cancer cells by combining multi-property isolation and microfluidic concentration. Lab on A Chip, 2019, 19, 757-766.	6.0	19
12	A CMOS image sensor with stacked photodiodes for lensless observation system of digital enzyme-linked immunosorbent assay. Japanese Journal of Applied Physics, 2014, 53, 04EL02.	1.5	18
13	Direct numerical simulation of vortex synchronization due to small perturbations. Journal of Fluid Mechanics, 2009, 634, 61.	3.4	17
14	Quantifying genetically inserted fluorescent protein in single iPS cells to monitor Nanog expression using electroactive microchamber arrays. Lab on A Chip, 2014, 14, 730-736.	6.0	14
15	Localization of low-abundant cancer cells in a sharply expanded microfluidic step-channel using dielectrophoresis. Biomicrofluidics, 2017, 11, .	2.4	14
16	Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
17	Acoustofluidic harvesting of microalgae on a single chip. Biomicrofluidics, 2016, 10, 034119.	2.4	12
18	Dual stimuli-responsive smart beads that allow â€œonâ€“offâ€•manipulation of cancer cells. Biomaterials Science, 2016, 4, 953-957.	5.4	12

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19	Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
20	On-chip immunofluorescence analysis of single cervical cells using an electroactive microwell array with barrier for cervical screening. Biomicrofluidics, 2019, 13, 044107.	2.4	6
21	Morphological Manipulation of DNA Gel Microbeads with Biomolecular Stimuli. Nanomaterials, 2021, 11, 293.	4.1	6
22	Expanding the Horizons for Single-Cell Applications on Lab-on-a-Chip Devices. Methods in Molecular Biology, 2012, 853, 199-210.	0.9	5
23	Ultra-high density protein spots achieved by on chip digitalized protein synthesis. Analyst, The, 2013, 138, 4663.	3.5	5
24	Highâ€throughput sorting of nanoliter droplets enabled by a sequentially addressable dielectrophoretic array. Electrophoresis, 2022, 43, 477-486.	2.4	5
25	Sequential Cell-Processing System by Integrating Hydrodynamic Purification and Dielectrophoretic Trapping for Analyses of Suspended Cancer Cells. Micromachines, 2020, 11, 47.	2.9	4
26	An electroactive microwell array device to realize simultaneous trapping of single cancer cells and clusters. Lab on A Chip, 0, , .	6.0	3
27	Nano bioresearch approach by microtechnology. Drug Discovery Today, 2013, 18, 552-559.	6.4	2
28	Microfluidic Approach to Cell Handling and Measurement. , 2016, , 85-106.		2
29	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
30	Biomimetic microfluidic neurons for bio-hybrid experiments. Artificial Life and Robotics, 2018, 23, 402-408.	1.2	1
31	Integrated Parallel Flow Cytometry Device with Time Gated Spads. , 2019, , .		1
32	Direct Capture and Amplification of Small Fragmented DNAs Using Nitrogen-Mustard-Coated Microbeads. Analytical Chemistry, 2022, 94, 7594-7600.	6.5	1
33	Biomimetic Spiking Neural Network (SNN) Systems for â€˜In Vitroâ€™ Cells Stimulation. , 2019, , .		0
34	2G15 Development of red blood cell deformability measurement device using dielectrophoresis : Quantification of the Young's modulus of red blood cells. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2G15-1_-_2G15-5_.	0.0	0
35	Quantification of red blood cell deformability by cell tensile test device utilizing dielectrophoresis. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2017, 2017, H-06.	0.0	0
36	Development of a Microdevice to Measure the Deformability of the Red Blood Cells Using the Dielectrophoretic Force. The Proceedings of Conference of Kanto Branch, 2017, 2017.23, 1308.	0.0	0

#	Article	IF	Citations
37	Abstract 3782: Genetic analysis using a novel high-purity enrichment system for circulating tumor cells independent of epithelial cell antigen. , 2017, , .		0