

Soo Hyeon Kim

List of Publications by Year in descending order

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37
papers

827
citations

623734

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526287

27
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38
all docs

38
docs citations

38
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput sorting of nanoliter droplets enabled by a sequentially addressable dielectrophoretic array. <i>Electrophoresis</i> , 2022, 43, 477-486.	2.4	5
2	Direct Capture and Amplification of Small Fragmented DNAs Using Nitrogen-Mustard-Coated Microbeads. <i>Analytical Chemistry</i> , 2022, 94, 7594-7600.	6.5	1
3	Morphological Manipulation of DNA Gel Microbeads with Biomolecular Stimuli. <i>Nanomaterials</i> , 2021, 11, 293.	4.1	6
4	Sequential Cell-Processing System by Integrating Hydrodynamic Purification and Dielectrophoretic Trapping for Analyses of Suspended Cancer Cells. <i>Micromachines</i> , 2020, 11, 47.	2.9	4
5	On-chip immunofluorescence analysis of single cervical cells using an electroactive microwell array with barrier for cervical screening. <i>Biomicrofluidics</i> , 2019, 13, 044107.	2.4	6
6	Integrated Parallel Flow Cytometry Device with Time Gated Spads. , 2019, , .		1
7	Cancer marker-free enrichment and direct mutation detection in rare cancer cells by combining multi-property isolation and microfluidic concentration. <i>Lab on A Chip</i> , 2019, 19, 757-766.	6.0	19
8	Biomimetic Spiking Neural Network (SNN) Systems for "In Vitro" Cells Stimulation. , 2019, , .		0
9	Biomimetic microfluidic neurons for bio-hybrid experiments. <i>Artificial Life and Robotics</i> , 2018, 23, 402-408.	1.2	1
10	Label-free single-cell separation and imaging of cancer cells using an integrated microfluidic system. <i>Scientific Reports</i> , 2017, 7, 46507.	3.3	70
11	Localization of low-abundant cancer cells in a sharply expanded microfluidic step-channel using dielectrophoresis. <i>Biomicrofluidics</i> , 2017, 11, .	2.4	14
12	Quantification of red blood cell deformability by cell tensile test device utilizing dielectrophoresis. <i>The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP</i> , 2017, 2017, H-06.	0.0	0
13	Development of a Microdevice to Measure the Deformability of the Red Blood Cells Using the Dielectrophoretic Force. <i>The Proceedings of Conference of Kanto Branch</i> , 2017, 2017.23, 1308.	0.0	0
14	Abstract 3782: Genetic analysis using a novel high-purity enrichment system for circulating tumor cells independent of epithelial cell antigen. , 2017, , .		0
15	Acoustofluidic harvesting of microalgae on a single chip. <i>Biomicrofluidics</i> , 2016, 10, 034119.	2.4	12
16	Dual stimuli-responsive smart beads that allow "on-off" manipulation of cancer cells. <i>Biomaterials Science</i> , 2016, 4, 953-957.	5.4	12
17	Efficient analysis of a small number of cancer cells at the single-cell level using an electroactive double-well array. <i>Lab on A Chip</i> , 2016, 16, 2440-2449.	6.0	52
18	Microfluidic Approach to Cell Handling and Measurement. , 2016, , 85-106.		2

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Cancer Cell Analyses at the Single Cell-Level Using Electroactive Microwell Array Device. PLoS ONE, 2015, 10, e0139980.	2.5	23
22	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
23	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
24	Arrayed lipid bilayer chambers allow single-molecule analysis of membrane transporter activity. Nature Communications, 2014, 5, 4519.	12.8	101
25	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
26	Nano bioresearch approach by microtechnology. Drug Discovery Today, 2013, 18, 552-559.	6.4	2
27	Ultra-high density protein spots achieved by on chip digitalized protein synthesis. Analyst, The, 2013, 138, 4663.	3.5	5
28	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
29	Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
30	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
31	Large-scale femtoliter droplet array for digital counting of single biomolecules. Lab on A Chip, 2012, 12, 4986.	6.0	185
32	Expanding the Horizons for Single-Cell Applications on Lab-on-a-Chip Devices. Methods in Molecular Biology, 2012, 853, 199-210.	0.9	5
33	Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
34	Electroactive Microwell Arrays for Highly Efficient Singleâ€“Cell Trapping and Analysis. Small, 2011, 7, 3239-3247.	10.0	90
35	An electroactive microwell array for trapping and lysing single-bacterial cells. Biomicrofluidics, 2011, 5, 24114.	2.4	23
36	Direct numerical simulation of vortex synchronization due to small perturbations. Journal of Fluid Mechanics, 2009, 634, 61.	3.4	17

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37	An electroactive microwell array device to realize simultaneous trapping of single cancer cells and clusters. Lab on A Chip, 0, , .	6.0	3