

Heon-Ho Jeong

List of Publications by Year in descending order

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31
papers

1,263
citations

430874

18
h-index

395702

33
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33
all docs

33
docs citations

33
times ranked

1825
citing authors

#	ARTICLE	IF	CITATIONS
1	Injectable Granular Hydrogels with Multifunctional Properties for Biomedical Applications. <i>Advanced Materials</i> , 2018, 30, e1705912.	21.0	224
2	Silicon and glass very large scale microfluidic droplet integration for terascale generation of polymer microparticles. <i>Nature Communications</i> , 2018, 9, 1222.	12.8	148
3	Kilo-scale droplet generation in three-dimensional monolithic elastomer device (3D MED). <i>Lab on A Chip</i> , 2015, 15, 4387-4392.	6.0	119
4	Recent developments in scale-up of microfluidic emulsion generation via parallelization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1757-1766.	2.7	83
5	Effect of shear stress on the formation of bacterial biofilm in a microfluidic channel. <i>Biochip Journal</i> , 2011, 5, 236-241.	4.9	74
6	Development of a Selective, Sensitive, and Reversible Biosensor by the Genetic Incorporation of a Metal-binding Site into Green Fluorescent Protein. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6534-6537.	13.8	55
7	A programmable microfluidic static droplet array for droplet generation, transportation, fusion, storage, and retrieval. <i>Lab on A Chip</i> , 2015, 15, 3677-3686.	6.0	53
8	Microfluidic static droplet array for analyzing microbial communication on a population gradient. <i>Lab on A Chip</i> , 2015, 15, 889-899.	6.0	53
9	On-chip analysis, indexing and screening for chemical producing bacteria in a microfluidic static droplet array. <i>Lab on A Chip</i> , 2016, 16, 1909-1916.	6.0	51
10	Ultra-high throughput detection (1 million droplets per second) of fluorescent droplets using a cell phone camera and time domain encoded optofluidics. <i>Lab on A Chip</i> , 2017, 17, 1083-1094.	6.0	49
11	Liter-scale production of uniform gas bubbles via parallelization of flow-focusing generators. <i>Lab on A Chip</i> , 2017, 17, 2667-2673.	6.0	40
12	A highly addressable static droplet array enabling digital control of a single droplet at pico-volume resolution. <i>Lab on A Chip</i> , 2016, 16, 1698-1707.	6.0	38
13	Microfluidic monitoring of <i>Pseudomonas aeruginosa</i> chemotaxis under the continuous chemical gradient. <i>Biosensors and Bioelectronics</i> , 2010, 26, 351-356.	10.1	31
14	Recent Developments in 3D Printing of Droplet-Based Microfluidics. <i>Biochip Journal</i> , 2021, 15, 313-333.	4.9	30
15	Pump-less static microfluidic device for analysis of chemotaxis of <i>Pseudomonas aeruginosa</i> using wetting and capillary action. <i>Biosensors and Bioelectronics</i> , 2013, 47, 278-284.	10.1	29
16	Effect of temperature on biofilm formation by Antarctic marine bacteria in a microfluidic device. <i>Analytical Biochemistry</i> , 2014, 446, 90-95.	2.4	22
17	Monitoring of chromosome dynamics of single yeast cells in a microfluidic platform with aperture cell traps. <i>Lab on A Chip</i> , 2016, 16, 1358-1365.	6.0	22
18	Profiling surface glycans on live cells and tissues using quantum dot-lectin nanoconjugates. <i>Lab on A Chip</i> , 2012, 12, 3290.	6.0	19

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19	Scalable static droplet array for biochemical assays based on concentration gradients. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1572-1578.	7.8	14
20	Moldable Perfluoropolyether/Polyethylene Glycol Networks with Tunable Wettability and Solvent Resistance for Rapid Prototyping of Droplet Microfluidics. <i>Chemistry of Materials</i> , 2018, 30, 2583-2588.	6.7	13
21	Hydrodynamic control of droplet breakup, immobilization, and coalescence for a multiplex microfluidic static droplet array. <i>Chemical Engineering Journal</i> , 2019, 360, 562-568.	12.7	13
22	Large-Scale Production of Compound Bubbles Using Parallelized Microfluidics for Efficient Extraction of Metal Ions. <i>Lab on A Chip</i> , 2019, 19, 665-673.	6.0	12
23	Fabrication of selective anti-biofouling surface for micro/nanopatterning of proteins. <i>Macromolecular Research</i> , 2010, 18, 868-875.	2.4	10
24	The inhibitory effect of phloretin on the formation of Escherichia coli O157:H7 biofilm in a microfluidic system. <i>Biochip Journal</i> , 2012, 6, 299-305.	4.9	9
25	Generation of uniform agarose microwells for cell patterning by micromolding in capillaries. <i>Macromolecular Research</i> , 2013, 21, 534-540.	2.4	9
26	Simple Analysis of Lipid Inhibition Activity on an Adipocyte Micro-Cell Pattern Chip. <i>Biomolecules</i> , 2018, 8, 37.	4.0	6
27	Optimization of microwell-based cell docking in microvalve integrated microfluidic device. <i>Biochip Journal</i> , 2014, 8, 227-233.	4.9	4
28	Improvement of a diffusion-based microfluidic chemotaxis assay through stable formation of a chemical gradient. <i>Chemical Engineering Science</i> , 2019, 202, 130-137.	3.8	3
29	Efficient and reliable screening of anti-obesity agents on a micro-cell pattern chip. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2688-2692.	3.2	2
30	Recent Developments in Bacterial Chemotaxis Analysis Based on the Microfluidic System. <i>SLAS Technology</i> , 2021, 26, 159-164.	1.9	2
31	Simple Fabrication of Adipocyte Cell Chip Using Micropatterning. <i>Korean Chemical Engineering Research</i> , 2016, 54, 223-228.	0.2	1