

Hoon Suk Rho

List of Publications by Citations

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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.

22
papers

344
citations

12
h-index

18
g-index

23
ext. papers

477
ext. citations

8.3
avg, IF

3.51
L-index

#	Paper	IF	Citations
22	An oviduct-on-a-chip provides an enhanced in vitro environment for zygote genome reprogramming. <i>Nature Communications</i> , 2018 , 9, 4934	17.4	62
21	High-Throughput Methods in the Discovery and Study of Biomaterials and Materiobiology. <i>Chemical Reviews</i> , 2021 , 121, 4561-4677	68.1	45
20	Microfluidic device for DNA amplification of single cancer cells isolated from whole blood by self-seeding microwells. <i>Lab on A Chip</i> , 2015 , 15, 4331-7	7.2	33
19	Immuno-capture of extracellular vesicles for individual multi-modal characterization using AFM, SEM and Raman spectroscopy. <i>Lab on A Chip</i> , 2019 , 19, 2526-2536	7.2	31
18	Programmable v-type valve for cell and particle manipulation in microfluidic devices. <i>Lab on A Chip</i> , 2016 , 16, 305-11	7.2	21
17	A guide to the organ-on-a-chip. <i>Nature Reviews Methods Primers</i> , 2022 , 2,		21
16	Parallel single cancer cell whole genome amplification using button-valve assisted mixing in nanoliter chambers. <i>PLoS ONE</i> , 2014 , 9, e107958	3.7	20
15	Mapping of Enzyme Kinetics on a Microfluidic Device. <i>PLoS ONE</i> , 2016 , 11, e0153437	3.7	17
14	Modular operation of microfluidic chips for highly parallelized cell culture and liquid dosing via a fluidic circuit board. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 107	7.7	15
13	A microfluidic chip for high resolution Raman imaging of biological cells. <i>RSC Advances</i> , 2015 , 5, 49350-49355	3.7	14
12	Microfluidic devices as gas ionic liquid membrane contactors for CO2 removal from anaesthesia gases. <i>Journal of Membrane Science</i> , 2018 , 545, 107-115	9.6	12
11	A microfluidic device for the batch adsorption of a protein on adsorbent particles. <i>Analyst, The</i> , 2017 , 142, 3656-3665	5	12
10	Understanding blood oxygenation in a microfluidic meander double side membrane contactor. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 414-424	8.5	9
9	Quantitative Analysis of Pneumatically Driven Biomimetic Micro Peristalsis. <i>Science of Advanced Materials</i> , 2014 , 6, 2428-2434	2.3	8
8	Parallel probing of drug uptake of single cancer cells on a microfluidic device. <i>Electrophoresis</i> , 2018 , 39, 548-556	3.6	6
7	A microfluidic chip with a staircase pH gradient generator, a packed column and a fraction collector for chromatofocusing of proteins. <i>Electrophoresis</i> , 2018 , 39, 1031-1039	3.6	5
6	Systematic Investigation of Insulin Fibrillation on a Chip. <i>Molecules</i> , 2020 , 25,	4.8	4

5	Programmable droplet-based microfluidic serial dilutor. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 91, 231-239	6.3	4
4	Microfluidic Droplet-Storage Array. <i>Micromachines</i> , 2020 , 11,	3.3	3
3	Evaluation of peristaltic micromixers for highly integrated microfluidic systems. <i>Review of Scientific Instruments</i> , 2016 , 87, 035003	1.7	1
2	A 3D polydimethylsiloxane microhourglass-shaped channel array made by reflowing photoresist structures for engineering a blood capillary network. <i>Methods</i> , 2021 , 190, 63-71	4.6	1
1	On the Improvement of Alveolar-Like Microfluidic Devices for Efficient Blood Oxygenation. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001027	6.8	0