Hoon Suk Rho

List of Publications by Year
in descending order

23	718	758635 12	642321 23
papers	citations	h-index	g-index

23	23	23	859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A guide to the organ-on-a-chip. Nature Reviews Methods Primers, 2022, 2, .	11.8	247
2	An oviduct-on-a-chip provides an enhanced in vitro environment for zygote genome reprogramming. Nature Communications, 2018, 9, 4934.	5.8	93
3	High-Throughput Methods in the Discovery and Study of Biomaterials and Materiobiology. Chemical Reviews, 2021, 121, 4561-4677.	23.0	89
4	Immuno-capture of extracellular vesicles for individual multi-modal characterization using AFM, SEM and Raman spectroscopy. Lab on A Chip, 2019, 19, 2526-2536.	3.1	48
5	Microfluidic device for DNA amplification of single cancer cells isolated from whole blood by self-seeding microwells. Lab on A Chip, 2015, 15, 4331-4337.	3.1	34
6	Modular operation of microfluidic chips for highly parallelized cell culture and liquid dosing via a fluidic circuit board. Microsystems and Nanoengineering, 2020, 6, 107.	3.4	34
7	Programmable v-type valve for cell and particle manipulation in microfluidic devices. Lab on A Chip, 2016, 16, 305-311.	3.1	23
8	Parallel Single Cancer Cell Whole Genome Amplification Using Button-Valve Assisted Mixing in Nanoliter Chambers. PLoS ONE, 2014, 9, e107958.	1.1	21
9	Microfluidic devices as gas â€“ Ionic liquid membrane contactors for CO2 removal from anaesthesia gases. Journal of Membrane Science, 2018, 545, 107-115.	4.1	20
10	Mapping of Enzyme Kinetics on a Microfluidic Device. PLoS ONE, 2016, 11, e0153437.	1.1	19
11	A microfluidic chip for high resolution Raman imaging of biological cells. RSC Advances, 2015, 5, 49350-49355.	1.7	14
12	A microfluidic device for the batch adsorption of a protein on adsorbent particles. Analyst, The, 2017, 142, 3656-3665.	1.7	14
13	Understanding blood oxygenation in a microfluidic meander double side membrane contactor. Sensors and Actuators B: Chemical, 2019, 288, 414-424.	4.0	11
14	A microfluidic chip with a staircase pH gradient generator, a packed column and a fraction collector for chromatofocusing of proteins. Electrophoresis, 2018, 39, 1031-1039.	1.3	8
15	Quantitative Analysis of Pneumatically Driven Biomimetic Micro Peristalsis. Science of Advanced Materials, 2014, 6, 2428-2434.	0.1	8
16	Microfluidic Droplet-Storage Array. Micromachines, 2020, 11, 608.	1.4	7
17	Parallel probing of drug uptake of single cancer cells on a microfluidic device. Electrophoresis, 2018, 39, 548-556.	1.3	6
18	Programmable droplet-based microfluidic serial dilutor. Journal of Industrial and Engineering Chemistry, 2020, 91, 231-239.	2.9	5

#	Article	IF	Citations
19	Systematic Investigation of Insulin Fibrillation on a Chip. Molecules, 2020, 25, 1380.	1.7	5
20	On the Improvement of Alveolarâ€Like Microfluidic Devices for Efficient Blood Oxygenation. Advanced Materials Technologies, 2021, 6, 2001027.	3.0	5
21	Protein Crystallization in a Microfluidic Contactor with NafionÂ®117 Membranes. Membranes, 2021, 11, 549.	1.4	3
22	Evaluation of peristaltic micromixers for highly integrated microfluidic systems. Review of Scientific Instruments, 2016, 87, 035003.	0.6	2
23	A 3D polydimethylsiloxane microhourglass-shaped channel array made by reflowing photoresist structures for engineering a blood capillary network. Methods, 2021, 190, 63-71.	1.9	2