Honggu Chun

List of Publications by Year
in descending order

36 papers	796 citations	759233 12 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	1366 citing authors

#	Article	IF	Citations
1	Improving the robustness of a catalyzed hairpin assembly with a three-arm nanostructure for nonenzymatic signal amplification. Analyst, The, 2022, 147, 1899-1905.	3.5	3
2	Droplet Energy Harvesting Is Reverse Phenomenon of Electrowetting on Dielectric. Advanced Functional Materials, 2021, 31, 2105233.	14.9	8
3	Diffusion-Based Separation of Extracellular Vesicles by Nanoporous Membrane Chip. Biosensors, 2021, 11, 347.	4.7	3
4	Multilayered and heterogeneous hydrogel construct printing system with crosslinking aerosol. Biofabrication, 2021, 13, 045027.	7.1	8
5	TAR RNA Mediated Folding of a Single-Arginine-Mutant HIV-1 Tat Protein within HeLa Cells Experiencing Intracellular Crowding. International Journal of Molecular Sciences, 2021, 22, 9998.	4.1	1
6	Red blood cell and white blood cell separation using a lateral-dimension scalable microchip based on hydraulic jump and sedimentation. Sensors and Actuators B: Chemical, 2020, 307, 127412.	7.8	6
7	Photon-directed multiplexed enzymatic DNA synthesis for molecular digital data storage. Nature Communications, 2020, 11, 5246.	12.8	53
8	Fabrication of Flexible, Highly Reproducible, and Hydrophobic Surface-enhanced Raman Scattering Substrates Through Silver-Nanoparticle Inkjet Printing. Journal of the Korean Physical Society, 2020, 76, 1025-1028.	0.7	4
9	Single-cell analysis of a mutant library generated using CRISPR-guided deaminase in human melanoma cells. Communications Biology, 2020, 3, 154.	4.4	25
10	Multiplexed detection of pathogens using magnetic microparticles encoded by magnetic axes. Sensors and Actuators B: Chemical, 2019, 285, 11-16.	7.8	11
11	Flexible and Stable Omniphobic Surfaces Based on Biomimetic Repulsive Air-Spring Structures. ACS Applied Materials & Interfaces, 2019, 11, 5877-5884.	8.0	23
12	Integration of electropreconcentration and electrospray ionization in a microchip. Journal of Chromatography A, 2018, 1543, 67-72.	3.7	6
13	Electropreconcentrationâ€induced local pH change. Electrophoresis, 2018, 39, 521-525.	2.4	8
14	Electropreconcentration, gate injection, and capillary electrophoresis separation on a microchip. Journal of Chromatography A, 2018, 1572, 179-186.	3.7	3
15	Development of a low flowâ€resistive charged nanoporous membrane in a microchip for fast electropreconcentration. Electrophoresis, 2018, 39, 2181-2187.	2.4	11
16	Improvement of droplet speed and stability in electrowetting on dielectric devices by surface polishing. Biochip Journal, 2017, 11, 316-321.	4.9	7
17	Electroosmotic Effects on Sample Concentration at the Interface of a Micro/Nanochannel. Analytical Chemistry, 2017, 89, 8924-8930.	6.5	12
18	Development of a conductivity-based photothermal absorbance detection microchip using polyelectrolytic gel electrodes. Journal of Chromatography A, 2017, 1523, 140-147.	3.7	7

#	Article	IF	Citations
19	Separation of extracellular nanovesicles and apoptotic bodies from cancer cell culture broth using tunable microfluidic systems. Scientific Reports, 2017, 7, 9907.	3.3	61
20	Electrical stimulation drives chondrogenesis of mesenchymal stem cells in the absence of exogenous growth factors. Scientific Reports, 2016, 6, 39302.	3.3	78
21	Iontronics. Annual Review of Analytical Chemistry, 2015, 8, 441-462.	5.4	159
22	Cation-selective electropreconcentration. Lab on A Chip, 2014, 14, 1811-1815.	6.0	19
23	Potentiometric Multichannel Cytometer Microchip for High-throughput Microdispersion Analysis. Analytical Chemistry, 2013, 85, 362-368.	6.5	12
24	3-D Simulation of Nanopore Structure for DNA Sequencing. Journal of Nanoscience and Nanotechnology, 2012, 12, 5160-5163.	0.9	4
25	In Situ Curing of Sliding SU-8 Droplet over a Microcontact Printed Pattern for Tunable Fabrication of a Polydimethylsiloxane Nanoslit. Analytical Chemistry, 2011, 83, 7221-7226.	6.5	5
26	Suppression of bimolecular recombination by UV-sensitive electron transport layers in organic solar cells. Journal of Applied Physics, 2010, 108, 083101.	2.5	7
27	Optofluidic in situ maskless lithography of charge selective nanoporous hydrogel for DNA preconcentration. Biomicrofluidics, 2010, 4, 43014.	2.4	27
28	High Yield Sample Preconcentration Using a Highly Ion-Conductive Charge-Selective Polymer. Analytical Chemistry, 2010, 82, 6287-6292.	6.5	76
29	Red blood cell quantification microfluidic chip using polyelectrolytic gel electrodes. Electrophoresis, 2009, 30, 1464-1469.	2.4	22
30	Bio-Cell Chip Fabrication and Applications. Methods in Molecular Biology, 2009, 509, 145-158.	0.9	6
31	Ultrafast active mixer using polyelectrolytic ion extractor. Lab on A Chip, 2008, 8, 764.	6.0	34
32	Cytometry and Velocimetry on a Microfluidic Chip Using Polyelectrolytic Salt Bridges. Analytical Chemistry, 2005, 77, 2490-2495.	6.5	73
33	IT-based diagnostic instrumentation systems for personalized healthcare services. Studies in Health Technology and Informatics, 2005, 117, 180-90.	0.3	11
34	New criterion to estimate the ventricular relaxation time constant (Ï„). , 0, , .		0
35	Development of an integrated home telemedicine system. , 0, , .		3
36	Application of computational modeling to improve cornea transplant surgery. Journal of the Korean Physical Society, 0, , 1.	0.7	0