

Honggu Chun

List of Publications by Year in descending order

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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	Iontronics. Annual Review of Analytical Chemistry, 2015, 8, 441-462.	5.4	159
2	Electrical stimulation drives chondrogenesis of mesenchymal stem cells in the absence of exogenous growth factors. Scientific Reports, 2016, 6, 39302.	3.3	78
3	High Yield Sample Preconcentration Using a Highly Ion-Conductive Charge-Selective Polymer. Analytical Chemistry, 2010, 82, 6287-6292.	6.5	76
4	Cytometry and Velocimetry on a Microfluidic Chip Using Polyelectrolytic Salt Bridges. Analytical Chemistry, 2005, 77, 2490-2495.	6.5	73
5	Separation of extracellular nanovesicles and apoptotic bodies from cancer cell culture broth using tunable microfluidic systems. Scientific Reports, 2017, 7, 9907.	3.3	61
6	Photon-directed multiplexed enzymatic DNA synthesis for molecular digital data storage. Nature Communications, 2020, 11, 5246.	12.8	53
7	Ultrafast active mixer using polyelectrolytic ion extractor. Lab on A Chip, 2008, 8, 764.	6.0	34
8	Optofluidic <i>in situ</i> maskless lithography of charge selective nanoporous hydrogel for DNA preconcentration. Biomicrofluidics, 2010, 4, 43014.	2.4	27
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	Flexible and Stable Omniphobic Surfaces Based on Biomimetic Repulsive Air-Spring Structures. ACS Applied Materials & Interfaces, 2019, 11, 5877-5884.	8.0	23
11	Red blood cell quantification microfluidic chip using polyelectrolytic gel electrodes. Electrophoresis, 2009, 30, 1464-1469.	2.4	22
12	Cation-selective electropreconcentration. Lab on A Chip, 2014, 14, 1811-1815.	6.0	19
13	Potentiometric Multichannel Cytometer Microchip for High-throughput Microdispersion Analysis. Analytical Chemistry, 2013, 85, 362-368.	6.5	12
14	Electroosmotic Effects on Sample Concentration at the Interface of a Micro/Nanochannel. Analytical Chemistry, 2017, 89, 8924-8930.	6.5	12
15	Development of a low flow resistive charged nanoporous membrane in a microchip for fast electropreconcentration. Electrophoresis, 2018, 39, 2181-2187.	2.4	11
16	Multiplexed detection of pathogens using magnetic microparticles encoded by magnetic axes. Sensors and Actuators B: Chemical, 2019, 285, 11-16.	7.8	11
17	IT-based diagnostic instrumentation systems for personalized healthcare services. Studies in Health Technology and Informatics, 2005, 117, 180-90.	0.3	11
18	Electropreconcentration-induced local pH change. Electrophoresis, 2018, 39, 521-525.	2.4	8

#	ARTICLE	IF	CITATIONS
19	Droplet Energy Harvesting Is Reverse Phenomenon of Electrowetting on Dielectric. <i>Advanced Functional Materials</i> , 2021, 31, 2105233.	14.9	8
20	Multilayered and heterogeneous hydrogel construct printing system with crosslinking aerosol. <i>Biofabrication</i> , 2021, 13, 045027.	7.1	8
21	Suppression of bimolecular recombination by UV-sensitive electron transport layers in organic solar cells. <i>Journal of Applied Physics</i> , 2010, 108, 083101.	2.5	7
22	Improvement of droplet speed and stability in electrowetting on dielectric devices by surface polishing. <i>Biochip Journal</i> , 2017, 11, 316-321.	4.9	7
23	Development of a conductivity-based photothermal absorbance detection microchip using polyelectrolytic gel electrodes. <i>Journal of Chromatography A</i> , 2017, 1523, 140-147.	3.7	7
24	Integration of electropreconcentration and electrospray ionization in a microchip. <i>Journal of Chromatography A</i> , 2018, 1543, 67-72.	3.7	6
25	Red blood cell and white blood cell separation using a lateral-dimension scalable microchip based on hydraulic jump and sedimentation. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127412.	7.8	6
26	Bio-Cell Chip Fabrication and Applications. <i>Methods in Molecular Biology</i> , 2009, 509, 145-158.	0.9	6
27	In Situ Curing of Sliding SU-8 Droplet over a Microcontact Printed Pattern for Tunable Fabrication of a Polydimethylsiloxane Nanoslit. <i>Analytical Chemistry</i> , 2011, 83, 7221-7226.	6.5	5
28	3-D Simulation of Nanopore Structure for DNA Sequencing. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5160-5163.	0.9	4
29	Fabrication of Flexible, Highly Reproducible, and Hydrophobic Surface-enhanced Raman Scattering Substrates Through Silver-Nanoparticle Inkjet Printing. <i>Journal of the Korean Physical Society</i> , 2020, 76, 1025-1028.	0.7	4
30	Development of an integrated home telemedicine system. , 0, , .		3
31	Electropreconcentration, gate injection, and capillary electrophoresis separation on a microchip. <i>Journal of Chromatography A</i> , 2018, 1572, 179-186.	3.7	3
32	Diffusion-Based Separation of Extracellular Vesicles by Nanoporous Membrane Chip. <i>Biosensors</i> , 2021, 11, 347.	4.7	3
33	Improving the robustness of a catalyzed hairpin assembly with a three-arm nanostructure for nonenzymatic signal amplification. <i>Analyst, The</i> , 2022, 147, 1899-1905.	3.5	3
34	TAR RNA Mediated Folding of a Single-Arginine-Mutant HIV-1 Tat Protein within HeLa Cells Experiencing Intracellular Crowding. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9998.	4.1	1
35	New criterion to estimate the ventricular relaxation time constant (\bar{t}_v). , 0, , .		0
36	Application of computational modeling to improve cornea transplant surgery. <i>Journal of the Korean Physical Society</i> , 0, , 1.	0.7	0