

Dayu Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5524856/publications.pdf>

Version: 2024-02-01

28
papers

773
citations

516710

16
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of SARS-coronavirus by a microfluidic chip system. <i>Electrophoresis</i> , 2004, 25, 3032-3039.	2.4	106
2	Integration of nanoporous membranes for sample filtration/preconcentration in microchip electrophoresis. <i>Electrophoresis</i> , 2006, 27, 4927-4934.	2.4	77
3	Detection of <i>Mycobacterium tuberculosis</i> Using a Capillary-Array Microsystem with Integrated DNA Extraction, Loop-Mediated Isothermal Amplification, and Fluorescence Detection. <i>Analytical Chemistry</i> , 2013, 85, 4698-4704.	6.5	54
4	Simultaneous and ultrarapid determination of reactive oxygen species and reduced glutathione in apoptotic leukemia cells by microchip electrophoresis. <i>Electrophoresis</i> , 2005, 26, 1155-1162.	2.4	52
5	Parallel analysis of biomolecules on a microfabricated capillary array chip. <i>Electrophoresis</i> , 2006, 27, 1084-1092.	2.4	47
6	Parallel microfluidic networks for studying cellular response to chemical modulation. <i>Journal of Biotechnology</i> , 2007, 131, 286-292.	3.8	39
7	A fully automated microfluidic PCR-array system for rapid detection of multiple respiratory tract infection pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1787-1798.	3.7	37
8	Isotachopheresis preconcentration integrated microfluidic chip for highly sensitive genotyping of the hepatitis B virus. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 844, 32-38.	2.3	36
9	Analysis of multiplex PCR fragments with PMMA microchip. <i>Talanta</i> , 2006, 68, 616-622.	5.5	34
10	Fabrication of two-weir structure-based packed columns for on-chip solid-phase extraction of DNA. <i>Electrophoresis</i> , 2007, 28, 2920-2926.	2.4	30
11	Screening Therapeutic Agents Specific to Breast Cancer Stem Cells Using a Microfluidic Single-Cell Cloning Inhibition Assay. <i>Small</i> , 2020, 16, e1901001.	10.0	27
12	Simplified transient isotachopheresis/capillary gel electrophoresis method for highly sensitive analysis of polymerase chain reaction samples on a microchip with laser-induced fluorescence detection. <i>Journal of Chromatography A</i> , 2008, 1214, 165-170.	3.7	26
13	Active droplet-array microfluidics-based chemiluminescence immunoassay for point-of-care detection of procalcitonin. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113684.	10.1	26
14	Fabrication of a microfluidic chip containing dam, weirs and gradient generator for studying cellular response to chemical modulation. <i>Materials Science and Engineering C</i> , 2009, 29, 674-679.	7.3	24
15	Highly efficient capillary polymerase chain reaction using an oscillation droplet microreactor. <i>Analytica Chimica Acta</i> , 2012, 718, 58-63.	5.4	23
16	A pocket-sized device automates multiplexed point-of-care RNA testing for rapid screening of infectious pathogens. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113145.	10.1	18
17	Active droplet-array (ADA) microfluidics enables multiplexed complex bioassays for point of care testing. <i>Chemical Communications</i> , 2018, 54, 2232-2235.	4.1	14
18	Magnet-actuated droplet microfluidic immunosensor coupled with gel imager for detection of microcystin-LR in aquatic products. <i>Talanta</i> , 2020, 219, 121329.	5.5	14

#	ARTICLE	IF	CITATIONS
19	Open Surface Droplet Microfluidic Magnetosensor for Microcystin-LR Monitoring in Reservoir. <i>Analytical Chemistry</i> , 2020, 92, 3409-3416.	6.5	14
20	On-chip coupling of free-resolution transient ITP and CGE for highly efficient separation of dsDNA with variable sample loading amounts. <i>Electrophoresis</i> , 2009, 30, 4300-4305.	2.4	12
21	Rapid screening of phenylketonuria using a CD microfluidic device. <i>Journal of Chromatography A</i> , 2011, 1218, 1907-1912.	3.7	12
22	Orthogonal Screening of Anticancer Drugs Using an Open-Access Microfluidic Tissue Array System. <i>Analytical Chemistry</i> , 2017, 89, 11976-11984.	6.5	12
23	Microgel Single-Cell Culture Arrays on a Microfluidic Chip for Selective Expansion and Recovery of Colorectal Cancer Stem Cells. <i>Analytical Chemistry</i> , 2021, 93, 12628-12638.	6.5	11
24	A simple and sensitive transient ITP method for on-chip analysis of PCR samples. <i>Electrophoresis</i> , 2008, 29, 4976-4983.	2.4	9
25	Design of parallel microfluidic gradient-generating networks for studying cellular response to chemical stimuli. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2008, 3, 384-390.	0.4	8
26	Ultrasensitive detection of serum hepatitis B virus by coupling ultrafiltration DNA extraction with real-time PCR. <i>PLoS ONE</i> , 2017, 12, e0170290.	2.5	6
27	Paper-supported co-culture system for dynamic investigations of the lung-tropic migration of breast cancer cells. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 025028.	3.3	4
28	Gel-Free Single-Cell Culture Arrays on a Microfluidic Chip for Highly Efficient Expansion and Recovery of Colon Cancer Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3623-3632.	5.2	1