

Lei Zhao

List of Publications by Year in descending order

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36
papers

802
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516561

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times ranked

1368
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Chip Construction of Liver Lobule-like Microtissue and Its Application for Adverse Drug Reaction Assay. <i>Analytical Chemistry</i> , 2016, 88, 1719-1727.	3.2	98
2	High-throughput rare cell separation from blood samples using steric hindrance and inertial microfluidics. <i>Lab on A Chip</i> , 2014, 14, 2525-2538.	3.1	66
3	Monitoring Tumor Response to Anticancer Drugs Using Stable Three-Dimensional Culture in a Recyclable Microfluidic Platform. <i>Analytical Chemistry</i> , 2015, 87, 9752-9760.	3.2	53
4	Simple and reusable off-the-shelf microfluidic devices for the versatile generation of droplets. <i>Lab on A Chip</i> , 2016, 16, 4718-4724.	3.1	43
5	Fabrication of Polydiacetylene Liposome Chemosensor with Enhanced Fluorescent Self-Amplification and Its Application for Selective Detection of Cationic Surfactants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28231-28240.	4.0	42
6	Au nanoparticles/poly(caffeic acid) composite modified glassy carbon electrode for voltammetric determination of acetaminophen. <i>Talanta</i> , 2016, 159, 356-364.	2.9	37
7	Deformability and size-based cancer cell separation using an integrated microfluidic device. <i>Analyst, The</i> , 2015, 140, 7335-7346.	1.7	34
8	Droplet-based PCR in a 3D-printed microfluidic chip for miRNA-21 detection. <i>Analytical Methods</i> , 2019, 11, 3286-3293.	1.3	33
9	Surface modification of poly(dimethylsiloxane) and its applications in microfluidics-based biological analysis. <i>Reviews in Analytical Chemistry</i> , 2012, 31, .	1.5	32
10	Dynamic Liquid Surface Enhanced Raman Scattering Platform Based on Soft Tubular Microfluidics for Label-Free Cell Detection. <i>Analytical Chemistry</i> , 2019, 91, 7973-7979.	3.2	32
11	Heterotypic 3D tumor culture in a reusable platform using pneumatic microfluidics. <i>Lab on A Chip</i> , 2016, 16, 4106-4120.	3.1	27
12	Pneumatic microfluidics-based multiplex single-cell array. <i>Biosensors and Bioelectronics</i> , 2016, 78, 423-430.	5.3	25
13	High throughput and multiplex localization of proteins and cells for in situ micropatterning using pneumatic microfluidics. <i>Analyst, The</i> , 2015, 140, 827-836.	1.7	22
14	Geometrically controlled preparation of various cell aggregates by droplet-based microfluidics. <i>Analytical Methods</i> , 2015, 7, 10040-10051.	1.3	22
15	Pneumatic-aided micro-molding for flexible fabrication of homogeneous and heterogeneous cell-laden microgels. <i>Lab on A Chip</i> , 2016, 16, 2609-2617.	3.1	22
16	Engineering of Removing Sacrificial Materials in 3D-Printed Microfluidics. <i>Micromachines</i> , 2018, 9, 327.	1.4	19
17	A TBET-based ratiometric probe for Au ³⁺ and its application in living cells. <i>Analyst, The</i> , 2016, 141, 1098-1104.	1.7	17
18	3D-Printed Concentration-Controlled Microfluidic Chip with Diffusion Mixing Pattern for the Synthesis of Alginate Drug Delivery Microgels. <i>Nanomaterials</i> , 2019, 9, 1451.	1.9	17

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19	Phylogenetic and pathogenic characterization of a pigeon paramyxovirus type 1 isolate reveals cross-species transmission and potential outbreak risks in the northwest region of China. Archives of Virology, 2017, 162, 2755-2767.	0.9	16
20	A visualized method for Cu ²⁺ ion detection by self-assembling azide functionalized free graphene oxide using click chemistry. RSC Advances, 2016, 6, 95628-95632.	1.7	13
21	River meander-inspired cross-section in 3D-printed helical microchannels for inertial focusing and enrichment. Sensors and Actuators B: Chemical, 2019, 301, 127125.	4.0	13
22	Simulation and practice of particle inertial focusing in 3D-printed serpentine microfluidic chips via commercial 3D-printers. Soft Matter, 2020, 16, 3096-3105.	1.2	13
23	Pneumatic mold-aided construction of a three-dimensional hydrogel microvascular network in an integrated microfluidics and assay of cancer cell adhesion onto the endothelium. Microfluidics and Nanofluidics, 2013, 15, 519-532.	1.0	12
24	Sodium Fluoride Affects DNA Methylation of Imprinted Genes in Mouse Early Embryos. Cytogenetic and Genome Research, 2015, 147, 41-47.	0.6	12
25	Facile PEG-based isolation and classification of cancer extracellular vesicles and particles with label-free surface-enhanced Raman scattering and pattern recognition algorithm. Analyst, The, 2021, 146, 1949-1955.	1.7	11
26	Drug preconcentration and direct quantification in biofluids using 3D-Printed paper cartridge. Biosensors and Bioelectronics, 2021, 189, 113266.	5.3	11
27	Simultaneously Enhanced Singlet Oxygen and Fluorescence Production of Nanoplatform by Surface Plasmon Resonance Coupling for Biomedical Applications. Langmuir, 2019, 35, 14833-14839.	1.6	10
28	Flow-rate and particle-size insensitive inertial focusing in dimension-confined ultra-low aspect ratio spiral microchannel. Sensors and Actuators B: Chemical, 2022, 369, 132284.	4.0	10
29	On-chip assay of the effect of topographical microenvironment on cell growth and cell-cell interactions during wound healing. Biomicrofluidics, 2015, 9, 064112.	1.2	8
30	Non-powered capillary force-driven stamped approach for directly printing nanomaterials aqueous solution on paper substrate. Lab on A Chip, 2020, 20, 931-941.	3.1	7
31	Carboxyl hydrogel particle film as a proton source for electrode surface modification. Electrochemistry Communications, 2014, 38, 75-78.	2.3	5
32	Electrochemically Reduced Carboxyl Graphene Modified Electrode for Simultaneous Determination of Guanine and Adenine. Analytical Letters, 2015, 48, 1465-1480.	1.0	5
33	Smartphone-Based Quantitative Fluorescence Detection of Flowing Droplets Using Embedded Ambient Light Sensor. IEEE Sensors Journal, 2021, 21, 4451-4461.	2.4	5
34	A plug-and-play 3D hydrodynamic focusing Raman platform for label-free and dynamic single microparticle detection. Sensors and Actuators B: Chemical, 2022, 369, 132273.	4.0	4
35	Voltammetric behavior of carboxyl hydrogel particles on a cavity electrode surface. Electrochimica Acta, 2014, 130, 22-28.	2.6	3
36	Voltammetric Behavior of Guanine at ERGO/GC Electrode and Its Application in Cell Counting. Journal of the Electrochemical Society, 2014, 161, G21-G25.	1.3	3