

Chia-Hung Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

2,315
citations

28
h-index

47
g-index

72
ext. papers

2,740
ext. citations

8.5
avg, IF

5.12
L-index

#	Paper	IF	Citations
61	Heterogeneous multi-compartmental DNA hydrogel particles prepared microfluidic assembly for lymphocyte-inspired precision medicine. <i>Nanoscale</i> , 2021 ,	7.7	1
60	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. <i>Science Advances</i> , 2021 , 7,	14.3	28
59	Dissolvable Gelatin-Based Microcarriers Generated through Droplet Microfluidics for Expansion and Culture of Mesenchymal Stromal Cells. <i>Biotechnology Journal</i> , 2021 , 16, e2000048	5.6	6
58	High-throughput functional profiling of single adherent cells hydrogel drop-screen. <i>Lab on A Chip</i> , 2021 , 21, 764-774	7.2	3
57	Multiplexed Single-Cell Leukocyte Enzymatic Secretion Profiling from Whole Blood Reveals Patient-Specific Immune Signature. <i>Analytical Chemistry</i> , 2021 , 93, 4374-4382	7.8	4
56	Hybrid hydrogel reactor with metal-organic framework for biomimetic cascade catalysis. <i>Chemical Engineering Journal</i> , 2021 , 425, 131482	14.7	5
55	Microfluidic sample preparation for respiratory virus detection: A review. <i>Biomicrofluidics</i> , 2021 , 15, 011503	5.3	5
54	Functional Stem Cell Sorting via Integrative Droplet Synchronization. <i>Analytical Chemistry</i> , 2020 , 92, 7915-7923	7.8	2
53	The Role of Single-Cell Technology in the Study and Control of Infectious Diseases. <i>Cells</i> , 2020 , 9,	7.9	8
52	Functional reservoir microcapsules generated via microfluidic fabrication for long-term cardiovascular therapeutics. <i>Lab on A Chip</i> , 2020 , 20, 2756-2764	7.2	13
51	Intelligent optofluidic analysis for ultrafast single bacterium profiling of cellulose production and morphology. <i>Lab on A Chip</i> , 2020 , 20, 626-633	7.2	5
50	Microfluidic compartmentalization to identify gene biomarkers of infection. <i>Biomicrofluidics</i> , 2020 , 14, 061502	3.2	5
49	Organic nanoparticle-doped microdroplets as dual-modality contrast agents for ultrasound microvascular flow and photoacoustic imaging. <i>Scientific Reports</i> , 2020 , 10, 17009	4.9	1
48	Nanoplasmon-enhanced drop-screen for high throughput single-cell nucleocytoplasmic miRNA profiling. <i>Lab on A Chip</i> , 2020 , 20, 1939-1946	7.2	2
47	Plasmonic droplet screen for single-cell secretion analysis. <i>Biosensors and Bioelectronics</i> , 2019 , 144, 1116398	6.3	11
46	Nano-in-Micro Smart Hydrogel Composite for a Rapid Sensitive Immunoassay. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801277	10.1	8
45	Intelligent Biohybrid Robotic Systems: A Remotely Controlled Transformable Soft Robot Based on Engineered Cardiac Tissue Construct (Small 18/2019). <i>Small</i> , 2019 , 15, 1970095	11	

44	Sub-Micro Particle Matter Detection for Metal 3-D Printing Workshop. <i>IEEE Sensors Journal</i> , 2019 , 19, 4932-4939	4	2
43	A Remotely Controlled Transformable Soft Robot Based on Engineered Cardiac Tissue Construct. <i>Small</i> , 2019 , 15, e1900006	11	14
42	Upconversion amplification through dielectric superlensing modulation. <i>Nature Communications</i> , 2019 , 10, 1391	17.4	76
41	Single-cell assays using integrated continuous-flow microfluidics. <i>Methods in Enzymology</i> , 2019 , 628, 59-94	1.7	
40	Ultrafast Single-Cell Level Enzymatic Tumor Profiling. <i>Analytical Chemistry</i> , 2019 , 91, 1277-1285	7.8	13
39	Buffer-free integrative nanofluidic device for real-time continuous flow bioassays by ion concentration polarization. <i>Lab on A Chip</i> , 2018 , 18, 574-584	7.2	11
38	Photothermal generation of programmable microbubble array on nanoporous gold disks. <i>Optics Express</i> , 2018 , 26, 16893-16902	3.3	10
37	Nanofluidic terahertz metasensor for sensing in aqueous environment. <i>Applied Physics Letters</i> , 2018 , 113, 071105	3.4	63
36	Smart Hydrogel Microfluidics for Single-Cell Multiplexed Secretomic Analysis with High Sensitivity. <i>Small</i> , 2018 , 14, e1802918	11	36
35	Ultrahigh-throughput droplet microfluidic device for single-cell miRNA detection with isothermal amplification. <i>Lab on A Chip</i> , 2018 , 18, 1914-1920	7.2	33
34	Single Upconversion Nanoparticle-Bacterium Cotrapping for Single-Bacterium Labeling and Analysis. <i>Small</i> , 2017 , 13, 1603418	11	35
33	Fast-responsive hydrogel as an injectable pump for rapid on-demand fluidic flow control. <i>Biomicrofluidics</i> , 2017 , 11, 034107	3.2	5
32	Effective Light Directed Assembly of Building Blocks with Microscale Control. <i>Small</i> , 2017 , 13, 1700684	11	18
31	Heterogeneous multi-compartmental hydrogel particles as synthetic cells for incompatible tandem reactions. <i>Nature Communications</i> , 2017 , 8, 663	17.4	84
30	A Miniature On-Chip Methane Sensor Based on an Ultra-Low Loss Waveguide and a Micro-Ring Resonator Filter. <i>Micromachines</i> , 2017 , 8, 160	3.3	8
29	Continuous-flow <i>C. elegans</i> fluorescence expression analysis with real-time image processing through microfluidics. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 428-34	11.8	16
28	Asymmetrical Deterministic Lateral Displacement Gaps for Dual Functions of Enhanced Separation and Throughput of Red Blood Cells. <i>Scientific Reports</i> , 2016 , 6, 22934	4.9	63
27	Single Cell Analysis of Leukocyte Protease Activity Using Integrated Continuous-Flow Microfluidics. <i>Analytical Chemistry</i> , 2016 , 88, 11750-11757	7.8	20

26	Production of Hollow Bacterial Cellulose Microspheres Using Microfluidics to Form an Injectable Porous Scaffold for Wound Healing. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2983-2992	10.1	45
25	Single cell multiplexed assay for proteolytic activity using droplet microfluidics. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 408-414	11.8	53
24	A turn on fluorescent sensor based on lanthanide coordination polymer nanoparticles for the detection of mercury(II) in biological fluids. <i>RSC Advances</i> , 2016 , 6, 17811-17817	3.7	38
23	Real-time modulated nanoparticle separation with an ultra-large dynamic range. <i>Lab on A Chip</i> , 2016 , 16, 75-85	7.2	52
22	A one-step hydrothermal route to programmable stimuli-responsive hydrogels. <i>Chemical Communications</i> , 2015 , 51, 6617-20	5.8	10
21	Remote modulation of neural activities via near-infrared triggered release of biomolecules. <i>Biomaterials</i> , 2015 , 65, 76-85	15.6	49
20	A convection-driven long-range linear gradient generator with dynamic control. <i>Lab on A Chip</i> , 2015 , 15, 1445-50	7.2	26
19	Sustained release of hydrophobic drugs by the microfluidic assembly of multistage microgel/poly (lactic-co-glycolic acid) nanoparticle composites. <i>Biomicrofluidics</i> , 2015 , 9, 052601	3.2	29
18	Jetting microfluidics with size-sorting capability for single-cell protease detection. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 19-23	11.8	73
17	Photoresponsive microvalve for remote actuation and flow control in microfluidic devices. <i>Biomicrofluidics</i> , 2015 , 9, 034114	3.2	34
16	Gradient Porous Elastic Hydrogels with Shape-Memory Property and Anisotropic Responses for Programmable Locomotion. <i>Advanced Functional Materials</i> , 2015 , 25, 7272-7279	15.6	179
15	Low-volume multiplexed proteolytic activity assay and inhibitor analysis through a pico-injector array. <i>Lab on A Chip</i> , 2015 , 15, 1153-9	7.2	27
14	NeuroArray: a universal interface for patterning and interrogating neural circuitry with single cell resolution. <i>Scientific Reports</i> , 2014 , 4, 4784	4.9	39
13	Near-infrared light triggerable deformation-free polysaccharide double network hydrogels. <i>Chemical Communications</i> , 2014 , 50, 7052-5	5.8	30
12	Single cell kinase signaling assay using pinched flow coupled droplet microfluidics. <i>Biomicrofluidics</i> , 2014 , 8, 034104	3.2	29
11	Drug Delivery: Near-Infrared Light Responsive Multi-Compartmental Hydrogel Particles Synthesized Through Droplets Assembly Induced by Superhydrophobic Surface (Small 23/2014). <i>Small</i> , 2014 , 10, 4984-4984	11	2
10	Near-infrared light responsive multi-compartmental hydrogel particles synthesized through droplets assembly induced by superhydrophobic surface. <i>Small</i> , 2014 , 10, 4886-94	11	44
9	Near-infrared photothermal activation of microgels incorporating polypyrrole nanotransducers through droplet microfluidics. <i>Chemical Communications</i> , 2013 , 49, 7887-9	5.8	30

8	Multiplexed protease activity assay for low-volume clinical samples using droplet-based microfluidics and its application to endometriosis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1645-8	16.4	67
7	ADAM-10 and -17 regulate endometriotic cell migration via concerted ligand and receptor shedding feedback on kinase signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2074-83	11.5	71
6	Monoglycerides in Oils 2011 , 173-201		3
5	Enhancing protease activity assay in droplet-based microfluidics using a biomolecule concentrator. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10368-71	16.4	65
4	Droplet microfluidics for fabrication of non-spherical particles. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 108-18	4.8	192
3	Microfluidic Assembly of Magnetic Hydrogel Particles with Uniformly Anisotropic Structure. <i>Advanced Materials</i> , 2009 , 21, 3201-3204	24	180
2	Janus particles templated from double emulsion droplets generated using microfluidics. <i>Langmuir</i> , 2009 , 25, 4320-3	4	192
1	Beating Poisson encapsulation statistics using close-packed ordering. <i>Lab on A Chip</i> , 2009 , 9, 2628-31	7.2	134