Han Wei Hou

List of Publications by Year
in descending order

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52 papers	3,700 citations	257101 24 h-index	197535 49 g-index
54 all docs	54 docs citations	54 times ranked	5421 citing authors

#	Article	IF	Citations
1	Isolation and retrieval of circulating tumor cells using centrifugal forces. Scientific Reports, 2013, 3, 1259.	1.6	618
2	Microfluidics for cell separation. Medical and Biological Engineering and Computing, 2010, 48, 999-1014.	1.6	531
3	Pinched flow coupled shear-modulated inertial microfluidics for high-throughput rare blood cell separation. Lab on A Chip, 2011, 11, 1870.	3.1	320
4	Deformability based cell margination â€"A simple microfluidic design for malaria-infected erythrocyte separation. Lab on A Chip, 2010, 10, 2605.	3.1	269
5	Direct evidence for cancer-cell-autonomous extracellular protein catabolism in pancreatic tumors. Nature Medicine, 2017, 23, 235-241.	15.2	263
6	Separation of Leukocytes from Blood Using Spiral Channel with Trapezoid Cross-Section. Analytical Chemistry, 2012, 84, 9324-9331.	3.2	191
7	Microfluidic Devices for Blood Fractionation. Micromachines, 2011, 2, 319-343.	1.4	141
8	Direct detection and drug-resistance profiling of bacteremias using inertial microfluidics. Lab on A Chip, 2015, 15, 2297-2307.	3.1	119
9	Flow Sensing of Single Cell by Graphene Transistor in a Microfluidic Channel. Nano Letters, 2011, 11, 5240-5246.	4.5	106
10	Advances in Single Cell Impedance Cytometry for Biomedical Applications. Micromachines, 2017, 8, 87.	1.4	82
11	Enhancing malaria diagnosis through microfluidic cell enrichment and magnetic resonance relaxometry detection. Scientific Reports, 2015, 5, 11425.	1.6	63
12	Multiplexed Affinity-Based Separation of Proteins and Cells Using Inertial Microfluidics. Scientific Reports, 2016, 6, 23589.	1.6	62
13	Integrated inertial-impedance cytometry for rapid label-free leukocyte isolation and profiling of neutrophil extracellular traps (NETs). Lab on A Chip, 2019, 19, 1736-1746.	3.1	59
14	Identification of malaria parasite-infected red blood cell surface aptamers by inertial microfluidic SELEX (I-SELEX). Scientific Reports, 2015, 5, 11347.	1.6	57
15	A tunable microfluidic 3D stenosis model to study leukocyte-endothelial interactions in atherosclerosis. APL Bioengineering, 2018, 2, 016103.	3.3	57
16	Micro-engineered perfusable 3D vasculatures for cardiovascular diseases. Lab on A Chip, 2017, 17, 2960-2968.	3.1	56
17	Rapid and label-free microfluidic neutrophil purification and phenotyping in diabetes mellitus. Scientific Reports, 2016, 6, 29410.	1.6	51
18	Rapid purification of sub-micrometer particles for enhanced drug release and microvesicles isolation. NPG Asia Materials, 2017, 9, e434-e434.	3.8	44

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19	A Multifunctional Role of Leucine-Rich Î±-2-Glycoprotein 1 in Cutaneous Wound Healing Under Normal and Diabetic Conditions. Diabetes, 2020, 69, 2467-2480.	0.3	41
20	Label-free leukocyte sorting and impedance-based profiling for diabetes testing. Biosensors and Bioelectronics, 2018, 118, 195-203.	5.3	38
21	Microfluidics for Applications in Cell Mechanics and Mechanobiology. Cellular and Molecular Bioengineering, 2011, 4, 591-602.	1.0	36
22	Monitoring sepsis using electrical cell profiling. Lab on A Chip, 2016, 16, 4333-4340.	3.1	35
23	Direct isolation of circulating extracellular vesicles from blood for vascular risk profiling in type 2 diabetes mellitus. Lab on A Chip, 2021, 21, 2511-2523.	3.1	33
24	Single Cell Metabolite Detection Using Inertial Microfluidics-Assisted Ion Mobility Mass Spectrometry. Analytical Chemistry, 2021, 93, 10462-10468.	3.2	30
25	Direct and Labelâ€Free Cell Status Monitoring of Spheroids and Microcarriers Using Microfluidic Impedance Cytometry. Small, 2021, 17, e2007500.	5.2	28
26	A novel human arterial wall-on-a-chip to study endothelial inflammation and vascular smooth muscle cell migration in early atherosclerosis. Lab on A Chip, 2021, 21, 2359-2371.	3.1	27
27	Spiral Inertial Microfluidics for Cell Separation and Biomedical Applications. Bioanalysis, 2019, , 99-150.	0.1	24
28	Label-free quantitative lymphocyte activation profiling using microfluidic impedance cytometry. Sensors and Actuators B: Chemical, 2021, 339, 129864.	4.0	24
29	Microfluidic Impedanceâ€Deformability Cytometry for Labelâ€Free Single Neutrophil Mechanophenotyping. Small, 2022, 18, e2104822.	5.2	24
30	Towards microfluidic-based depletion of stiff and fragile human red cells that accumulate during blood storage. Lab on A Chip, 2015, 15, 448-458.	3.1	23
31	A Novel Microdevice for Rapid Neutrophil Purification and Phenotyping in Type 2 Diabetes Mellitus. Small, 2018, 14, 1702832.	5.2	22
32	Recapitulating atherogenic flow disturbances and vascular inflammation in a perfusable 3D stenosis model. Biofabrication, 2020, 12, 045009.	3.7	22
33	Interference-free Micro/nanoparticle Cell Engineering by Use of High-Throughput Microfluidic Separation. ACS Applied Materials & Interfaces, 2015, 7, 20855-20864.	4.0	21
34	Broad spectrum immunomodulation using biomimetic blood cell margination for sepsis therapy. Lab on A Chip, 2016, 16, 688-699.	3.1	21
35	A Microfluidic Cytometer for Complete Blood Count With a 3.2-Megapixel, 1.1-Î¼m-Pitch Super-Resolution Image Sensor in 65-nm BSI CMOS. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 794-803.	2.7	21
36	Potentâ€Byâ€Design: Amino Acids Mimicking Porous Nanotherapeutics with Intrinsic Anticancer Targeting Properties. Small, 2020, 16, e2003757.	5.2	20

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37	Microfluidic Size Exclusion Chromatography (Î¼SEC) for Extracellular Vesicles and Plasma Protein Separation. Small, 2022, 18, e2104470.	5.2	20
38	Increased monocyteâ€platelet aggregates and monocyteâ€endothelial adhesion in healthy individuals with vitamin D deficiency. FASEB Journal, 2020, 34, 11133-11142.	0.2	17
39	A Facile and Scalable Hydrogel Patterning Method for Microfluidic 3D Cell Culture and Spheroid-in-Gel Culture Array. Biosensors, 2021, 11, 509.	2.3	16
40	Multiplexed Label-Free Fractionation of Peripheral Blood Mononuclear Cells for Identification of Monocyteâ€“Platelet Aggregates. Analytical Chemistry, 2018, 90, 14535-14542.	3.2	15
41	Preservation of Anticancer and Immunosuppressive Properties of Rapamycin Achieved Through Controlled Releasing Particles. AAPS PharmSciTech, 2017, 18, 2648-2657.	1.5	12
42	Leucine-Rich Î±-2-Glycoprotein 1 Suppresses Endothelial Cell Activation Through ADAM10-Mediated Shedding of TNF-Î± Receptor. Frontiers in Cell and Developmental Biology, 2021, 9, 706143.	1.8	11
43	Thrombin-derived host defence peptide modulates neutrophil rolling and migration in vitro and functional response in vivo. Scientific Reports, 2017, 7, 11201.	1.6	7
44	FUT6 deficiency compromises basophil function by selectively abrogating their sialyl-Lewis x expression. Communications Biology, 2021, 4, 832.	2.0	7
45	Understanding stenosis-induced platelet aggregation on a chip by high-speed optical imaging. Sensors and Actuators B: Chemical, 2022, 356, 131318.	4.0	4
46	Deformability Based Cell Margination â€“ A Simple Microfluidic Design for Malarial Infected Red Blood Cell Filtration. IFMBE Proceedings, 2010, , 1671-1674.	0.2	3
47	A convolutional neural network based single-frame super-resolution for lensless blood cell counting. , 2016, , .		3
48	Hyaluronidase-1-mediated glycocalyx impairment underlies endothelial abnormalities in polypoidal choroidal vasculopathy. BMC Biology, 2022, 20, 47.	1.7	3
49	Microfluidic Buffer Exchange for Interference-free Micro/Nanoparticle Cell Engineering. Journal of Visualized Experiments, 2016, , .	0.2	2
50	Microfluidic Impedanceâ€Deformability Cytometry for Labelâ€Free Single Neutrophil Mechanophenotyping (Small 18/2022). Small, 2022, 18, .	5.2	1
51	Neutrophil Phenotyping: A Novel Microdevice for Rapid Neutrophil Purification and Phenotyping in Type 2 Diabetes Mellitus (Small 6/2018). Small, 2018, 14, 1870025.	5.2	0
52	Microfluidics: Direct and Labelâ€Free Cell Status Monitoring of Spheroids and Microcarriers Using Microfluidic Impedance Cytometry (Small 21/2021). Small, 2021, 17, 2170101.	5.2	0