Bee Luan Khoo

List of Publications by Year
in descending order

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48 papers	3,366 citations	304743 22 h-index	254184 43 g-index
50 all docs	50 docs citations	50 times ranked	4167 citing authors

#	Article	IF	Citations
1	Isolation and retrieval of circulating tumor cells using centrifugal forces. Scientific Reports, 2013, 3, 1259.	3.3	618
2	Slanted spiral microfluidics for the ultra-fast, label-free isolation of circulating tumor cells. Lab on A Chip, 2014, 14, 128-137.	6.0	485
3	Ultra-fast, label-free isolation of circulating tumor cells from blood using spiral microfluidics. Nature Protocols, 2016, 11, 134-148.	12.0	439
4	Microfluidic modelling of the tumor microenvironment for anti-cancer drug development. Lab on A Chip, 2019, 19, 369-386.	6.0	182
5	An ultra-high-throughput spiral microfluidic biochip for the enrichment of circulating tumor cells. Analyst, The, 2014, 139, 3245-3255.	3.5	173
6	Clinical Validation of an Ultra High-Throughput Spiral Microfluidics for the Detection and Enrichment of Viable Circulating Tumor Cells. PLoS ONE, 2014, 9, e99409.	2.5	165
7	Isoporous Micro/Nanoengineered Membranes. ACS Nano, 2013, 7, 1882-1904.	14.6	140
8	Short-term expansion of breast circulating cancer cells predicts response to anti-cancer therapy. Oncotarget, 2015, 6, 15578-15593.	1.8	134
9	Expansion of patient-derived circulating tumor cells from liquid biopsies using a CTC microfluidic culture device. Nature Protocols, 2018, 13, 34-58.	12.0	128
10	Liquid biopsy and therapeutic response: Circulating tumor cell cultures for evaluation of anticancer treatment. Science Advances, 2016, 2, e1600274.	10.3	120
11	Malaria detection using inertial microfluidics. Lab on A Chip, 2015, 15, 1101-1109.	6.0	108
12	Selective particle and cell capture in a continuous flow using micro-vortex acoustic streaming. Lab on A Chip, 2017, 17, 1769-1777.	6.0	84
13	Characterizing Deformability and Electrical Impedance of Cancer Cells in a Microfluidic Device. Analytical Chemistry, 2018, 90, 912-919.	6.5	83
14	Singleâ€cell profiling approaches to probing tumor heterogeneity. International Journal of Cancer, 2016, 139, 243-255.	5.1	52
15	Urine biopsy technologies: Cancer and beyond. Theranostics, 2020, 10, 7872-7888.	10.0	51
16	Hybrid capillary-inserted microfluidic device for sheathless particle focusing and separation in viscoelastic flow. Biomicrofluidics, 2015, 9, 064117.	2.4	41
17	A wood-templated unidirectional piezoceramic composite for transmuscular ultrasonic wireless power transfer. Energy and Environmental Science, 2021, 14, 6574-6585.	30.8	30
18	Intraoperative cell salvage in metastatic spine tumour surgery reduces potential for reinfusion of viable cancer cells. European Spine Journal, 2016, 25, 4008-4015.	2.2	28

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19	Low-dose anti-inflammatory combinatorial therapy reduced cancer stem cell formation in patient-derived preclinical models for tumour relapse prevention. British Journal of Cancer, 2019, 120, 407-423.	6.4	28
20	Metastatic efficiency of tumour cells can be impaired by intraoperative cell salvage process: truth or conjecture?. Transfusion Medicine, 2017, 27, 327-334.	1.1	24
21	A portable purification system for the rapid removal of microplastics from environmental samples. Chemical Engineering Journal, 2022, 428, 132614.	12.7	24
22	Liquid biopsy for minimal residual disease detection in leukemia using a portable blast cell biochip. Npj Precision Oncology, 2019, 3, 30.	5.4	23
23	The effects of biofilms on tumor progression in a 3D cancer-biofilm microfluidic model. Biosensors and Bioelectronics, 2021, 180, 113113.	10.1	22
24	Fasting to enhance Cancer treatment in models: the next steps. Journal of Biomedical Science, 2020, 27, 58.	7.0	17
25	Microfluidic studies of hydrostatic pressure-enhanced doxorubicin resistance in human breast cancer cells. Lab on A Chip, 2021, 21, 746-754.	6.0	17
26	Bacterial targeted AIE photosensitizers synergistically promote chemotherapy for the treatment of inflammatory cancer. Chemical Engineering Journal, 2022, 447, 137579.	12.7	17
27	Label-free biosensor of phagocytosis for diagnosing bacterial infections. Biosensors and Bioelectronics, 2021, 191, 113412.	10.1	16
28	Liquid biopsy technologies for hematological diseases. Medicinal Research Reviews, 2021, 41, 246-274.	10.5	15
29	A Quadrotor With a Passively Reconfigurable Airframe for Hybrid Terrestrial Locomotion. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4741-4751.	5.8	15
30	Detection of Clinical Mesenchymal Cancer Cells from Bladder Wash Urine for Real-Time Detection and Prognosis. Cancers, 2019, 11, 1274.	3.7	14
31	Worm-Based Microfluidic Biosensor for Real-Time Assessment of the Metastatic Status. Cancers, 2021, 13, 873.	3.7	13
32	Sensitive detection of microRNAs using polyadenine-mediated fluorescent spherical nucleic acids and a microfluidic electrokinetic signal amplification chip. Journal of Pharmaceutical Analysis, 2022, 12, 808-813.	5.3	11
33	Microdevices for Non-Invasive Detection of Bladder Cancer. Chemosensors, 2017, 5, 30.	3.6	8
34	Rapid detection of microorganisms in a fish infection microfluidics platform. Journal of Hazardous Materials, 2022, 431, 128572.	12.4	8
35	Early Predictor Tool of Disease Using Label-Free Liquid Biopsy-Based Platforms for Patient-Centric Healthcare. Cancers, 2022, 14, 818.	3.7	6
36	Genesis of Circulating Tumor Cells Through Epithelialâ€“Mesenchymal Transition as a Mechanism for Distant Dissemination. Current Cancer Research, 2016, , 139-182.	0.2	5

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37	A density-based threshold model for evaluating the separation of particles in heterogeneous mixtures with curvilinear microfluidic channels. Scientific Reports, 2020, 10, 18984.	3.3	5
38	Investigating the influence of physiologically relevant hydrostatic pressure on CHO cell batch culture. Scientific Reports, 2021, 11, 162.	3.3	5
39	Advancing Techniques and Insights in Circulating Tumor Cell (CTC) Research. Cancer Drug Discovery and Development, 2017, , 71-94.	0.4	2
40	Phase II study of neoadjuvant weekly paclitaxel and carboplatin with lapatinib in HER2+ breast cancer.. Journal of Clinical Oncology, 2014, 32, 619-619.	1.6	2
41	A 6-gene panel as a signature to predict recovery from advanced heart failure using transcriptomic analysis. Genes and Diseases, 2022, 9, 1178-1180.	3.4	2
42	Accurate prediction of drug-induced heterogeneous response of red cell in vivo using a gravity-driven flow cytometry based on a microfluidic chip. Analytica Chimica Acta, 2022, 1221, 340151.	5.4	2
43	Microfluidics for Fast and Frugal Diagnosis of Malaria, Sepsis, and HIV/AIDS. , 2018, , 57-75.		1
44	Evaluation of the safety of using intra-operative salvaged blood in metastatic spine tumour surgery: using microwell technique. Spine Journal, 2016, 16, S62.	1.3	0
45	Inter-dependency relationships between patient-derived macrophages and circulating tumor cells in co-culture with relevance to novel therapeutic design. Annals of Oncology, 2016, 27, viii13-viii14.	1.2	0
46	Anti-inflammatory combinatorial therapy to enhance killing efficacy with patient-derived preclinical models. , 0, , .		0
47	Heterogeneity of biomarker expression in clinical urine biopsies. , 0, , .		0
48	Liquid Biopsy and Expansion of Patient Derived Circulating Tumor Cell Spheroids for Precision Medicine. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY80-3.	0.0	0