Francis Lin

List of Publications by Year
in descending order

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81	3,713	147726 31	133188 59
papers	citations	h-index	g-index

82	82	82	4666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A flux-adaptable pump-free microfluidics-based self-contained platform for multiplex cancer biomarker detection. Lab on A Chip, 2021, 21, 143-153.	3.1	53
2	Microfluidic devices for neutrophil migration studies. , 2021, , 173-200.		0
3	Emerging optofluidic technologies for biodiagnostic applications. View, 2021, 2, 20200035.	2.7	9
4	â€œMicrofluidics Studies of the Regulation of Myoblast Migration and Differentiation Behaviour â€“ Possible Application in Wound Healingâ€• FASEB Journal, 2021, 35, .	0.2	0
5	Activin A as a Novel Chemokine Induces Migration of L929 Fibroblasts by ERK Signaling in Microfluidic Devices. Frontiers in Cell and Developmental Biology, 2021, 9, 660316.	1.8	8
6	Boron rich nanotube drug carrier system is suited for boron neutron capture therapy. Scientific Reports, 2021, 11, 15520.	1.6	6
7	Investigations on T cell transmigration in a human skin-on-chip (SoC) model. Lab on A Chip, 2021, 21, 1527-1539.	3.1	27
8	Generation of flow and droplets with an ultra-long-range linear concentration gradient. Lab on A Chip, 2021, 21, 4390-4400.	3.1	21
9	Applications of microfluidic devices in advancing NK-cell migration studies. Methods in Enzymology, 2020, 631, 357-370.	0.4	8
10	Mucus-penetrating PEGylated polysuccinimide-based nanocarrier for intravaginal delivery of siRNA battling sexually transmitted infections. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111287.	2.5	10
11	TILRR Promotes Migration of Immune Cells Through Induction of Soluble Inflammatory Mediators. Frontiers in Cell and Developmental Biology, 2020, 8, 563.	1.8	6
12	Traction and attraction: haptotaxis substrates collagen and fibronectin interact with chemotaxis by HGF to regulate myoblast migration in a microfluidic device. American Journal of Physiology - Cell Physiology, 2020, 319, C75-C92.	2.1	6
13	Methodology of Research and Applications of Electric Fields. Bioelectricity, 2020, 2, 320-320.	0.6	1
14	Effect of Manitoba-Grown Red-Osier Dogwood Extracts on Recovering Caco-2 Cells from H2O2-Induced Oxidative Damage. Antioxidants, 2019, 8, 250.	2.2	20
15	Paper-Based Microfluidic Device (DON-Chip) for Rapid and Low-Cost Deoxynivalenol Quantification in Food, Feed, and Feed Ingredients. ACS Sensors, 2019, 4, 3072-3079.	4.0	36
16	Fully-functional semi-automated microfluidic immunoassay platform for quantitation of multiple samples. Sensors and Actuators B: Chemical, 2019, 300, 127017.	4.0	21
17	Sputum from chronic obstructive pulmonary disease patients inhibits T cell migration in a microfluidic device. Annals of the New York Academy of Sciences, 2019, 1445, 52-61.	1.8	8
18	A new tool to attack biofilms: driving magnetic iron-oxide nanoparticles to disrupt the matrix. Nanoscale, 2019, 11, 6905-6915.	2.8	68

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19	A New Microfluidic Platform for Studying Natural Killer Cell and Dendritic Cell Interactions. Micromachines, 2019, 10, 851.	1.4	5
20	Emerging Development of Microfluidics-Based Approaches to Improve Studies of Muscle Cell Migration. Tissue Engineering - Part B: Reviews, 2019, 25, 30-45.	2.5	7
21	Recent development of portable imaging platforms for cell-based assays. Biosensors and Bioelectronics, 2019, 124-125, 150-160.	5.3	30
22	Microfluidic Devices for Studying the Effect of Netrinâ€1 on Neutrophil and Breast Cancer Cell Migration. Advanced Biology, 2018, 2, 1700178.	3.0	3
23	Lab-on-chip technology for chronic disease diagnosis. Npj Digital Medicine, 2018, 1, 7.	5.7	99
24	Distinct roles for phosphoinositide 3-kinases Î³ and Î´ in malignant B cell migration. Leukemia, 2018, 32, 1958-1969.	3.3	40
25	Mkit: A cell migration assay based on microfluidic device and smartphone. Biosensors and Bioelectronics, 2018, 99, 259-267.	5.3	27
26	A radial microfluidic platform for higher throughput chemotaxis studies with individual gradient control. Lab on A Chip, 2018, 18, 3855-3864.	3.1	34
27	A Passive Mixing Microfluidic Urinary Albumin Chip for Chronic Kidney Disease Assessment. ACS Sensors, 2018, 3, 2191-2197.	4.0	25
28	The effects of activin A on the migration of human breast cancer cells and neutrophils and their migratory interaction. Experimental Cell Research, 2017, 357, 107-115.	1.2	21
29	Fibroblast growth factor 23 weakens chemotaxis of human blood neutrophils in microfluidic devices. Scientific Reports, 2017, 7, 3100.	1.6	21
30	Collective cell migration has distinct directionality and speed dynamics. Cellular and Molecular Life Sciences, 2017, 74, 3841-3850.	2.4	33
31	A dual-docking microfluidic cell migration assay (D²-Chip) for testing neutrophil chemotaxis and the memory effect. Integrative Biology (United Kingdom), 2017, 9, 303-312.	0.6	27
32	Chemorepellent Semaphorin 3E Negatively Regulates Neutrophil Migration In Vitro and In Vivo. Journal of Immunology, 2017, 198, 1023-1033.	0.4	38
33	A bioenergetic mechanism for amoeboid-like cell motility profiles tested in a microfluidic electrotaxis assay. Integrative Biology (United Kingdom), 2017, 9, 844-856.	0.6	3
34	An All-on-chip Method for Rapid Neutrophil Chemotaxis Analysis Directly from a Drop of Blood. Journal of Visualized Experiments, 2017, , .	0.2	7
35	The long non-coding RNA BC200 (BCYRN1) is critical for cancer cell survival and proliferation. Molecular Cancer, 2017, 16, 109.	7.9	70
36	Cell Migration Research Based on Organ-on-Chip-Related Approaches. Micromachines, 2017, 8, 324.	1.4	14

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37	Lab-on-a-Chip Platforms for Detection of Cardiovascular Disease and Cancer Biomarkers. Sensors, 2017, 17, 2934.	2.1	60
38	Rapid and Low-Cost CRP Measurement by Integrating a Paper-Based Microfluidic Immunoassay with Smartphone (CRP-Chip). Sensors, 2017, 17, 684.	2.1	43
39	Microfluidic-Based Live-Cell Analysis of NK Cell Migration In Vitro. Methods in Molecular Biology, 2016, 1441, 75-86.	0.4	1
40	An all-on-chip method for testing neutrophil chemotaxis induced by fMLP and COPD patientâ€™s sputum. Technology, 2016, 04, 104-109.	1.4	17
41	Novel developments in mobile sensing based on the integration of microfluidic devices and smartphones. Lab on A Chip, 2016, 16, 943-958.	3.1	168
42	Phosphatidylinositol-3,4-Bisphosphate and Its Binding Protein Lamellipodin Regulate Chemotaxis of Malignant B Lymphocytes. Journal of Immunology, 2016, 196, 586-595.	0.4	15
43	Adipose-Derived Stem Cells from Both Visceral and Subcutaneous Fat Deposits Significantly Improve Contractile Function of Infarcted Rat Hearts. Cell Transplantation, 2015, 24, 2337-2351.	1.2	17
44	Neutrophil migration under spatially-varying chemoattractant gradient profiles. Biomedical Microdevices, 2015, 17, 9963.	1.4	13
45	Analysis of CCR7 mediated T cell transfectant migration using a microfluidic gradient generator. Journal of Immunological Methods, 2015, 419, 9-17.	0.6	6
46	Selection of chemotactic adipose-derived stem cells using a microfluidic gradient generator. RSC Advances, 2015, 5, 6332-6339.	1.7	2
47	A Microfluidic Platform for Evaluating Neutrophil Chemotaxis Induced by Sputum from COPD Patients. PLoS ONE, 2015, 10, e0126523.	1.1	28
48	Cultivable bacterial diversity and amylase production in three typical <scp>D</scp>aqus of <scp>C</scp>hinese spirits. International Journal of Food Science and Technology, 2014, 49, 776-786.	1.3	34
49	Recent Developments in Electrotaxis Assays. Advances in Wound Care, 2014, 3, 149-155.	2.6	14
50	Microfluidicâ€based, liveâ€cell analysis allows assessment of NKâ€cell migration in response to crosstalk with dendritic cells. European Journal of Immunology, 2014, 44, 2737-2748.	1.6	23
51	A compact microfluidic system for cell migration studies. Biomedical Microdevices, 2014, 16, 521-528.	1.4	14
52	Recent developments in microfluidics-based chemotaxis studies. Lab on A Chip, 2013, 13, 2484.	3.1	126
53	DC Electric Fields Direct Breast Cancer Cell Migration, Induce EGFR Polarization, and Increase the Intracellular Level of Calcium Ions. Cell Biochemistry and Biophysics, 2013, 67, 1115-1125.	0.9	55
54	Effects of Clostridium difficile Toxin A and B on Human T Lymphocyte Migration. Toxins, 2013, 5, 926-938.	1.5	13

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55	The Tandem PH Domain-Containing Protein 2 (TAPP2) Regulates Chemokine-Induced Cytoskeletal Reorganization and Malignant B Cell Migration. PLoS ONE, 2013, 8, e57809.	1.1	16
56	An Inâ€Vitro Model of T Cell Exit from the T Cell Zone Mediated by Subâ€Regional Coâ€Existing CCL19 and CCL21 Fields in Lymph Nodes. FASEB Journal, 2013, 27, 1016.3.	0.2	0
57	Microfluidic device for studying cell migration in single or co-existing chemical gradients and electric fields. Biomicrofluidics, 2012, 6, 024121.	1.2	48
58	Surface Engineering of Poly(ethylene terephthalate) for Durable Hemocompatibility via a Surface Interpenetrating Network Technique. Macromolecular Chemistry and Physics, 2012, 213, 2120-2129.	1.1	19
59	Purification and Characterization of Alkaline Pectin Lyase from a Newly Isolated Bacillus clausii and Its Application in Elicitation of Plant Disease Resistance. Applied Biochemistry and Biotechnology, 2012, 167, 2241-2256.	1.4	23
60	Growth and positioning of adipose-derived stem cells in microfluidic devices. Lab on A Chip, 2012, 12, 4829.	3.1	18
61	E-cadherin plays an essential role in collective directional migration of large epithelial sheets. Cellular and Molecular Life Sciences, 2012, 69, 2779-2789.	2.4	119
62	Activated T lymphocytes migrate toward the cathode of DC electric fields in microfluidic devices. Lab on A Chip, 2011, 11, 1298.	3.1	62
63	A receptor-electromigration-based model for cellular electrotactic sensing and migration. Biochemical and Biophysical Research Communications, 2011, 411, 695-701.	1.0	10
64	Microfluidics for food, agriculture and biosystems industries. Lab on A Chip, 2011, 11, 1574.	3.1	200
65	Modeling Cell Gradient Sensing and Migration in Competing Chemoattractant Fields. PLoS ONE, 2011, 6, e18805.	1.1	16
66	Microfluidic devices for studying chemotaxis and electrotaxis. Trends in Cell Biology, 2011, 21, 489-497.	3.6	115
67	Combinatorial Guidance by CCR7 Ligands for T Lymphocytes Migration in Co-Existing Chemokine Fields. PLoS ONE, 2011, 6, e18183.	1.1	70
68	Chapter 15 A Microfluidicsâ€Based Method for Analyzing Leukocyte Migration to Chemoattractant Gradients. Methods in Enzymology, 2009, 461, 333-347.	0.4	18
69	Lymphocyte Electrotaxis In Vitro and In Vivo. Journal of Immunology, 2008, 181, 2465-2471.	0.4	118
70	Modeling the Role of Homologous Receptor Desensitization in Cell Gradient Sensing. Journal of Immunology, 2008, 181, 8335-8343.	0.4	36
71	A Gradient-generating Microfluidic Device for Cell Biology. Journal of Visualized Experiments, 2007, , 271.	0.2	10
72	Generation of stable concentration gradients in 2D and 3D environments using a microfluidic ladder chamber. Biomedical Microdevices, 2007, 9, 627-635.	1.4	175

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73	A microfluidic multi-injector for gradient generation. Lab on A Chip, 2006, 6, 764.	3.1	91
74	TÂcell chemotaxis in a simple microfluidic device. Lab on A Chip, 2006, 6, 1462-1469.	3.1	172
75	A parallel-gradient microfluidic chamber for quantitative analysis of breast cancer cell chemotaxis. Biomedical Microdevices, 2006, 8, 109-118.	1.4	180
76	Neutrophil Migration in Opposing Chemoattractant Gradients Using Microfluidic Chemotaxis Devices. Annals of Biomedical Engineering, 2005, 33, 475-482.	1.3	95
77	Intracellular actin-based transport: How far you go depends on how often you switch. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13204-13209.	3.3	77
78	Generation of dynamic temporal and spatial concentration gradients using microfluidic devices. Lab on A Chip, 2004, 4, 164.	3.1	194
79	Effective neutrophil chemotaxis is strongly influenced by mean IL-8 concentration. Biochemical and Biophysical Research Communications, 2004, 319, 576-581.	1.0	130
80	Differential effects of EGF gradient profiles on MDA-MB-231 breast cancer cell chemotaxis. Experimental Cell Research, 2004, 300, 180-189.	1.2	240
81	Microengineered tools for studying cell migration in electric fields. , 0, , 110-127.		0