Francis Lin

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Differential effects of EGF gradient profiles on MDA-MB-231 breast cancer cell chemotaxis. Experimental Cell Research, 2004, 300, 180-189.	1.2	240
2	Microfluidics for food, agriculture and biosystems industries. Lab on A Chip, 2011, 11, 1574.	3.1	200
3	Generation of dynamic temporal and spatial concentration gradients using microfluidic devices. Lab on A Chip, 2004, 4, 164.	3.1	194
4	A parallel-gradient microfluidic chamber for quantitative analysis of breast cancer cell chemotaxis. Biomedical Microdevices, 2006, 8, 109-118.	1.4	180
5	Generation of stable concentration gradients in 2D and 3D environments using a microfluidic ladder chamber. Biomedical Microdevices, 2007, 9, 627-635.	1.4	175
6	TÂcell chemotaxis in a simple microfluidic device. Lab on A Chip, 2006, 6, 1462-1469.	3.1	172
7	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
8	Effective neutrophil chemotaxis is strongly influenced by mean IL-8 concentration. Biochemical and Biophysical Research Communications, 2004, 319, 576-581.	1.0	130
9	Recent developments in microfluidics-based chemotaxis studies. Lab on A Chip, 2013, 13, 2484.	3.1	126
10	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
11	Lymphocyte Electrotaxis In Vitro and In Vivo. Journal of Immunology, 2008, 181, 2465-2471.	0.4	118
12	Microfluidic devices for studying chemotaxis and electrotaxis. Trends in Cell Biology, 2011, 21, 489-497.	3.6	115
13	Lab-on-chip technology for chronic disease diagnosis. Npj Digital Medicine, 2018, 1, 7.	5.7	99
14	Neutrophil Migration in Opposing Chemoattractant Gradients Using Microfluidic Chemotaxis Devices. Annals of Biomedical Engineering, 2005, 33, 475-482.	1.3	95
15	A microfluidic multi-injector for gradient generation. Lab on A Chip, 2006, 6, 764.	3.1	91
16	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
17	The long non-coding RNA BC200 (BCYRN1) is critical for cancer cell survival and proliferation. Molecular Cancer, 2017, 16, 109.	7.9	70
18	Combinatorial Guidance by CCR7 Ligands for T Lymphocytes Migration in Co-Existing Chemokine Fields. PLoS ONE, 2011, 6, e18183.	1.1	70

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19	A new tool to attack biofilms: driving magnetic iron-oxide nanoparticles to disrupt the matrix. Nanoscale, 2019, 11, 6905-6915.	2.8	68
20	Activated T lymphocytes migrate toward the cathode of DC electric fields in microfluidic devices. Lab on A Chip, 2011, 11, 1298.	3.1	62
21	Lab-on-a-Chip Platforms for Detection of Cardiovascular Disease and Cancer Biomarkers. Sensors, 2017, 17, 2934.	2.1	60
22	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
23	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
24	Microfluidic device for studying cell migration in single or co-existing chemical gradients and electric fields. Biomicrofluidics, 2012, 6, 024121.	1.2	48
25	Rapid and Low-Cost CRP Measurement by Integrating a Paper-Based Microfluidic Immunoassay with Smartphone (CRP-Chip). Sensors, 2017, 17, 684.	2.1	43
26	Distinct roles for phosphoinositide 3-kinases Î³ and Î´ in malignant B cell migration. Leukemia, 2018, 32, 1958-1969.	3.3	40
27	Chemorepellent Semaphorin 3E Negatively Regulates Neutrophil Migration In Vitro and In Vivo. Journal of Immunology, 2017, 198, 1023-1033.	0.4	38
28	Modeling the Role of Homologous Receptor Desensitization in Cell Gradient Sensing. Journal of Immunology, 2008, 181, 8335-8343.	0.4	36
29	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
30	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
31	A radial microfluidic platform for higher throughput chemotaxis studies with individual gradient control. Lab on A Chip, 2018, 18, 3855-3864.	3.1	34
32	Collective cell migration has distinct directionality and speed dynamics. Cellular and Molecular Life Sciences, 2017, 74, 3841-3850.	2.4	33
33	Recent development of portable imaging platforms for cell-based assays. Biosensors and Bioelectronics, 2019, 124-125, 150-160.	5.3	30
34	A Microfluidic Platform for Evaluating Neutrophil Chemotaxis Induced by Sputum from COPD Patients. PLoS ONE, 2015, 10, e0126523.	1.1	28
35	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
36	Mkit: A cell migration assay based on microfluidic device and smartphone. Biosensors and Bioelectronics, 2018, 99, 259-267.	5.3	27

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37	Investigations on T cell transmigration in a human skin-on-chip (SoC) model. Lab on A Chip, 2021, 21, 1527-1539.	3.1	27
38	A Passive Mixing Microfluidic Urinary Albumin Chip for Chronic Kidney Disease Assessment. ACS Sensors, 2018, 3, 2191-2197.	4.0	25
39	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
40	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
41	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
42	Fibroblast growth factor 23 weakens chemotaxis of human blood neutrophils in microfluidic devices. Scientific Reports, 2017, 7, 3100.	1.6	21
43	Fully-functional semi-automated microfluidic immunoassay platform for quantitation of multiple samples. Sensors and Actuators B: Chemical, 2019, 300, 127017.	4.0	21
44	Generation of flow and droplets with an ultra-long-range linear concentration gradient. Lab on A Chip, 2021, 21, 4390-4400.	3.1	21
45	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
46	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
47	Chapter 15 A Microfluidicsâ€Based Method for Analyzing Leukocyte Migration to Chemoattractant Gradients. Methods in Enzymology, 2009, 461, 333-347.	0.4	18
48	Growth and positioning of adipose-derived stem cells in microfluidic devices. Lab on A Chip, 2012, 12, 4829.	3.1	18
49	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
50	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
51	Modeling Cell Gradient Sensing and Migration in Competing Chemoattractant Fields. PLoS ONE, 2011, 6, e18805.	1.1	16
52	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
53	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
54	Recent Developments in Electrotaxis Assays. Advances in Wound Care, 2014, 3, 149-155.	2.6	14

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55	A compact microfluidic system for cell migration studies. Biomedical Microdevices, 2014, 16, 521-528.	1.4	14
56	Cell Migration Research Based on Organ-on-Chip-Related Approaches. Micromachines, 2017, 8, 324.	1.4	14
57	Effects of Clostridium difficile Toxin A and B on Human T Lymphocyte Migration. Toxins, 2013, 5, 926-938.	1.5	13
58	Neutrophil migration under spatially-varying chemoattractant gradient profiles. Biomedical Microdevices, 2015, 17, 9963.	1.4	13
59	A Gradient-generating Microfluidic Device for Cell Biology. Journal of Visualized Experiments, 2007, , 271.	0.2	10
60	A receptor-electromigration-based model for cellular electrotactic sensing and migration. Biochemical and Biophysical Research Communications, 2011, 411, 695-701.	1.0	10
61	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
62	Emerging optofluidic technologies for biodiagnostic applications. View, 2021, 2, 20200035.	2.7	9
63	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
64	Applications of microfluidic devices in advancing NK-cell migration studies. Methods in Enzymology, 2020, 631, 357-370.	0.4	8
65	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
66	An All-on-chip Method for Rapid Neutrophil Chemotaxis Analysis Directly from a Drop of Blood. Journal of Visualized Experiments, 2017, , .	0.2	7
67	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
68	Analysis of CCR7 mediated T cell transfectant migration using a microfluidic gradient generator. Journal of Immunological Methods, 2015, 419, 9-17.	0.6	6
69	TILRR Promotes Migration of Immune Cells Through Induction of Soluble Inflammatory Mediators. Frontiers in Cell and Developmental Biology, 2020, 8, 563.	1.8	6
70	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
71	Boron rich nanotube drug carrier system is suited for boron neutron capture therapy. Scientific Reports, 2021, 11, 15520.	1.6	6
72	A New Microfluidic Platform for Studying Natural Killer Cell and Dendritic Cell Interactions. Micromachines, 2019, 10, 851.	1.4	5

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73	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
74	Microfluidic Devices for Studying the Effect of Netrinâ€1 on Neutrophil and Breast Cancer Cell Migration. Advanced Biology, 2018, 2, 1700178.	3.0	3
75	Selection of chemotactic adipose-derived stem cells using a microfluidic gradient generator. RSC Advances, 2015, 5, 6332-6339.	1.7	2
76	Microfluidic-Based Live-Cell Analysis of NK Cell Migration In Vitro. Methods in Molecular Biology, 2016, 1441, 75-86.	0.4	1
77	Methodology of Research and Applications of Electric Fields. Bioelectricity, 2020, 2, 320-320.	0.6	1
78	Microengineered tools for studying cell migration in electric fields. , 0, , 110-127.		0
79	Microfluidic devices for neutrophil migration studies. , 2021, , 173-200.		0
80	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
81	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