

# Daniel Irimia

## List of Publications by Citations

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181  
papers

16,241  
citations

59  
h-index

126  
g-index

206  
ext. papers

18,636  
ext. citations

7.5  
avg, IF

6.38  
L-index

#	Paper	IF	Citations
181	Isolation of rare circulating tumour cells in cancer patients by microchip technology. <i>Nature</i> , <b>2007</b> , 450, 1235-9	50.4	2834
180	Detection of mutations in EGFR in circulating lung-cancer cells. <i>New England Journal of Medicine</i> , <b>2008</b> , 359, 366-77	59.2	1399
179	Isolation of circulating tumor cells using a microvortex-generating herringbone-chip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 18392-7	11.5	1264
178	Continuous inertial focusing, ordering, and separation of particles in microchannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 18892-7	11.5	1131
177	Blood-on-a-chip. <i>Annual Review of Biomedical Engineering</i> , <b>2005</b> , 7, 77-103	12	511
176	Controlled encapsulation of single-cells into monodisperse picolitre drops. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1262-7	7.2	386
175	Microfluidic isolation and transcriptome analysis of serum microvesicles. <i>Lab on A Chip</i> , <b>2010</b> , 10, 505-11	7.2	377
174	Equilibrium separation and filtration of particles using differential inertial focusing. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2204-11	7.8	306
173	Asymmetry and aging of mycobacterial cells lead to variable growth and antibiotic susceptibility. <i>Science</i> , <b>2012</b> , 335, 100-4	33.3	282
172	Malaria-infected erythrocyte-derived microvesicles mediate cellular communication within the parasite population and with the host immune system. <i>Cell Host and Microbe</i> , <b>2013</b> , 13, 521-534	23.4	264
171	A microfluidic device for practical label-free CD4(+) T cell counting of HIV-infected subjects. <i>Lab on A Chip</i> , <b>2007</b> , 7, 170-8	7.2	261
170	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimer's disease brain. <i>Nature Communications</i> , <b>2015</b> , 6, 8490	17.4	204
169	Rapid appearance of resolvins precursors in inflammatory exudates: novel mechanisms in resolution. <i>Journal of Immunology</i> , <b>2008</b> , 181, 8677-87	5.3	197
168	Pediatric Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): Clinical Presentation, Infectivity, and Immune Responses. <i>Journal of Pediatrics</i> , <b>2020</b> , 227, 45-52.e5	3.6	192
167	A high-throughput microfluidic real-time gene expression living cell array. <i>Lab on A Chip</i> , <b>2007</b> , 7, 77-85	7.2	186
166	Universal microfluidic gradient generator. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3472-7	7.8	180
165	Spontaneous migration of cancer cells under conditions of mechanical confinement. <i>Integrative Biology (United Kingdom)</i> , <b>2009</b> , 1, 506-12	3.7	176

164	A zebrafish compound screen reveals modulation of neutrophil reverse migration as an anti-inflammatory mechanism. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 225ra29	17.5	163
163	Microfluidic system for measuring neutrophil migratory responses to fast switches of chemical gradients. <i>Lab on A Chip</i> , <b>2006</b> , 6, 191-8	7.2	156
162	Critical role for lysyl oxidase in mesenchymal stem cell-driven breast cancer malignancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 17460-5	11.5	155
161	TorsinA binds the KASH domain of nesprins and participates in linkage between nuclear envelope and cytoskeleton. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 3476-86	5.3	137
160	Collective and individual migration following the epithelial-mesenchymal transition. <i>Nature Materials</i> , <b>2014</b> , 13, 1063-71	27	134
159	MYC regulation of a "poor-prognosis" metastatic cancer cell state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 3698-703	11.5	134
158	Three-Dimensional Blood-Brain Barrier Model for in vitro Studies of Neurovascular Pathology. <i>Scientific Reports</i> , <b>2015</b> , 5, 15222	4.9	132
157	Mitochondrial localization and the persistent migration of epithelial cancer cells. <i>Biophysical Journal</i> , <b>2013</b> , 104, 2077-88	2.9	132
156	Clinical microfluidics for neutrophil genomics and proteomics. <i>Nature Medicine</i> , <b>2010</b> , 16, 1042-7	50.5	132
155	Resolvin E2 formation and impact in inflammation resolution. <i>Journal of Immunology</i> , <b>2012</b> , 188, 4527-34	5.3	127
154	Cell detection and counting through cell lysate impedance spectroscopy in microfluidic devices. <i>Lab on A Chip</i> , <b>2007</b> , 7, 746-55	7.2	124
153	Polar stimulation and constrained cell migration in microfluidic channels. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1783-90	7.2	122
152	Differential effect of three-repeat and four-repeat tau on mitochondrial axonal transport. <i>Journal of Neurochemistry</i> , <b>2009</b> , 111, 417-27	6	114
151	Proresolving and cartilage-protective actions of resolvin D1 in inflammatory arthritis. <i>JCI Insight</i> , <b>2016</b> , 1, e85922	9.9	111
150	Burn injury reduces neutrophil directional migration speed in microfluidic devices. <i>PLoS ONE</i> , <b>2010</b> , 5, e11921	3.7	98
149	Living cantilever arrays for characterization of mass of single live cells in fluids. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1034-41	7.2	98
148	Neutrophil chemorepulsion in defined interleukin-8 gradients in vitro and in vivo. <i>Journal of Leukocyte Biology</i> , <b>2006</b> , 79, 539-54	6.5	97
147	Neutrophil cytoplasts induce T17 differentiation and skew inflammation toward neutrophilia in severe asthma. <i>Science Immunology</i> , <b>2018</b> , 3,	28	95

146	Microvortex for focusing, guiding and sorting of particles. <i>Lab on A Chip</i> , <b>2008</b> , 8, 2128-34	7.2	95
145	Migration of neutrophils targeting amyloid plaques in Alzheimer's disease mouse model. <i>Neurobiology of Aging</i> , <b>2014</b> , 35, 1286-92	5.6	91
144	Murine B16 melanomas expressing high levels of the chemokine stromal-derived factor-1/CXCL12 induce tumor-specific T cell chemorepulsion and escape from immune control. <i>Journal of Immunology</i> , <b>2006</b> , 176, 2902-14	5.3	89
143	Microfluidic proportional flow controller. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 1-8	2	84
142	Single-cell chemical lysis in picoliter-scale closed volumes using a microfabricated device. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 6137-43	7.8	83
141	Microfluidic platform for the quantitative analysis of leukocyte migration signatures. <i>Nature Communications</i> , <b>2014</b> , 5, 4787	17.4	80
140	Resolvin D2 prevents secondary thrombosis and necrosis in a mouse burn wound model. <i>Wound Repair and Regeneration</i> , <b>2013</b> , 21, 35-43	3.6	79
139	Ultrasensitive detection of low-abundance surface-marker protein using isothermal rolling circle amplification in a microfluidic nanoliter platform. <i>Small</i> , <b>2011</b> , 7, 395-400	11	78
138	1729. Profiling Human Neutrophil Functional Responses From Solid-Organ and Stem Cell Transplant Recipients to <i>Candida albicans</i> . <i>Open Forum Infectious Diseases</i> , <b>2019</b> , 6, S634-S634	1	78
137	A microchip approach for practical label-free CD4+ T-cell counting of HIV-infected subjects in resource-poor settings. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , <b>2007</b> , 45, 257-61	3.1	74
136	Three-Dimensional Holographic Refractive-Index Measurement of Continuously Flowing Cells in a Microfluidic Channel. <i>Physical Review Applied</i> , <b>2014</b> , 1,	4.3	72
135	Microfluidic chambers for monitoring leukocyte trafficking and humanized nano-proresolving medicines interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 20560-5	11.5	72
134	A short pulse (7 micros FWHM) and high repetition rate (dc-5 kHz) cantilever piezovalve for pulsed atomic and molecular beams. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 113303	1.7	71
133	A genome-wide RNAi screen identifies multiple RSK-dependent regulators of cell migration. <i>Genes and Development</i> , <b>2010</b> , 24, 2654-65	12.6	69
132	Directional decisions during neutrophil chemotaxis inside bifurcating channels. <i>Integrative Biology (United Kingdom)</i> , <b>2010</b> , 2, 639-47	3.7	69
131	Decoding functional metabolomics with docosahexaenoyl ethanolamide (DHEA) identifies novel bioactive signals. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 31532-41	5.4	67
130	Epithelial cell guidance by self-generated EGF gradients. <i>Integrative Biology (United Kingdom)</i> , <b>2012</b> , 4, 259-69	3.7	65
129	Biased migration of confined neutrophil-like cells in asymmetric hydraulic environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 21006-11	11.5	65

128	Cell handling using microstructured membranes. <i>Lab on A Chip</i> , <b>2006</b> , 6, 345-52	7.2	65
127	Resolvin D2 restores neutrophil directionality and improves survival after burns. <i>FASEB Journal</i> , <b>2013</b> , 27, 2270-81	0.9	64
126	Human Neurospheroid Arrays for In Vitro Studies of Alzheimer's Disease. <i>Scientific Reports</i> , <b>2018</b> , 8, 24504	4.9	61
125	Kinetics and mechanism of intercellular ice propagation in a micropatterned tissue construct. <i>Biophysical Journal</i> , <b>2002</b> , 82, 1858-68	2.9	61
124	Diagnosis of sepsis from a drop of blood by measurement of spontaneous neutrophil motility in a microfluidic assay. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 207-214	19	60
123	Microfluidic chemotaxis platform for differentiating the roles of soluble and bound amyloid- $\beta$ on microglial accumulation. <i>Scientific Reports</i> , <b>2013</b> , 3, 1823	4.9	60
122	Controlled loading of cryoprotectants (CPAs) to oocyte with linear and complex CPA profiles on a microfluidic platform. <i>Lab on A Chip</i> , <b>2011</b> , 11, 3530-7	7.2	59
121	Synthetic microvascular networks for quantitative analysis of particle adhesion. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 585-95	3.7	59
120	Tau reduction in the presence of amyloid- $\beta$ prevents tau pathology and neuronal death in vivo. <i>Brain</i> , <b>2018</b> , 141, 2194-2212	11.2	58
119	Microfluidic technologies for temporal perturbations of chemotaxis. <i>Annual Review of Biomedical Engineering</i> , <b>2010</b> , 12, 259-84	12	56
118	Microscale arrays for the profiling of start and stop signals coordinating human-neutrophil swarming. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1,	19	52
117	Spontaneous neutrophil migration patterns during sepsis after major burns. <i>PLoS ONE</i> , <b>2014</b> , 9, e114509	3.7	52
116	Subsets of human CD4(+) regulatory T cells express the peripheral homing receptor CXCR3. <i>European Journal of Immunology</i> , <b>2011</b> , 41, 2291-302	6.1	51
115	Humoral signatures of protective and pathological SARS-CoV-2 infection in children. <i>Nature Medicine</i> , <b>2021</b> , 27, 454-462	50.5	50
114	Three-Dimensional Models of the Human Brain Development and Diseases. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1700723	10.1	49
113	Neutrophil migration assay from a drop of blood. <i>Lab on A Chip</i> , <b>2008</b> , 8, 2054-61	7.2	49
112	Cell-cell interaction modulates neuroectodermal specification of embryonic stem cells. <i>Neuroscience Letters</i> , <b>2008</b> , 438, 190-5	3.3	48
111	Directional memory arises from long-lived cytoskeletal asymmetries in polarized chemotactic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1267-72	11.5	47

110	Porous microwells for geometry-selective, large-scale microparticle arrays. <i>Nature Materials</i> , <b>2017</b> , 16, 139-146	27	47
109	Whole blood human neutrophil trafficking in a microfluidic model of infection and inflammation. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2625-33	7.2	47
108	Retrotaxis of human neutrophils during mechanical confinement inside microfluidic channels. <i>Integrative Biology (United Kingdom)</i> , <b>2014</b> , 6, 175-83	3.7	43
107	A Food and Drug Administration-approved asthma therapeutic agent impacts amyloid $\beta$ in the brain in a transgenic model of Alzheimer disease. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 1966-78	5.4	43
106	Nucleation and solidification in static arrays of monodisperse drops. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1859-65	7.2	43
105	Inflammation-on-a-Chip: Probing the Immune System Ex Vivo. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 923-937	15.1	41
104	Multiple phenotypes in Huntington disease mouse neural stem cells. <i>Molecular and Cellular Neurosciences</i> , <b>2012</b> , 50, 70-81	4.8	39
103	Neutrophil Interactions Stimulate Evasive Hyphal Branching by <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006154	7.6	37
102	Elastomeric microchip electrospray emitter for stable cone-jet mode operation in the nanoflow regime. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3824-31	7.8	35
101	Measuring neutrophil speed and directionality during chemotaxis, directly from a droplet of whole blood. <i>Technology</i> , <b>2013</b> , 1, 49	3	34
100	A highly-occupied, single-cell trapping microarray for determination of cell membrane permeability. <i>Lab on A Chip</i> , <b>2017</b> , 17, 4077-4088	7.2	33
99	Neutrophil swarming delays the growth of clusters of pathogenic fungi. <i>Nature Communications</i> , <b>2020</b> , 11, 2031	17.4	33
98	The Role of Physical Stabilization in Whole Blood Preservation. <i>Scientific Reports</i> , <b>2016</b> , 6, 21023	4.9	31
97	Efficient Front-Rear Coupling in Neutrophil Chemotaxis by Dynamic Myosin II Localization. <i>Developmental Cell</i> , <b>2019</b> , 49, 189-205.e6	10.2	30
96	In situ characterization of a cold and short pulsed molecular beam by femtosecond ion imaging. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3958-66	3.6	30
95	Microfluidic assay for precise measurements of mouse, rat, and human neutrophil chemotaxis in whole-blood droplets. <i>Journal of Leukocyte Biology</i> , <b>2016</b> , 100, 241-7	6.5	26
94	Microfluidic leukocyte isolation for gene expression analysis in critically ill hospitalized patients. <i>Clinical Chemistry</i> , <b>2008</b> , 54, 891-900	5.5	26
93	Synthesis of Cell-Adhesive Anisotropic Multifunctional Particles by Stop Flow Lithography and Streptavidin-Biotin Interactions. <i>Langmuir</i> , <b>2015</b> , 31, 13165-71	4	25

92	Gene Expression of Proresolving Lipid Mediator Pathways Is Associated With Clinical Outcomes in Trauma Patients. <i>Critical Care Medicine</i> , <b>2015</b> , 43, 2642-50	1.4	25
91	Human Neutrophils Are Primed by Chemoattractant Gradients for Blocking the Growth of <i>Aspergillus fumigatus</i> . <i>Journal of Infectious Diseases</i> , <b>2016</b> , 213, 465-75	7	24
90	Neutrophil chemotaxis and transcriptomics in term and preterm neonates. <i>Translational Research</i> , <b>2017</b> , 190, 4-15	11	24
89	Adaptive-control model for neutrophil orientation in the direction of chemical gradients. <i>Biophysical Journal</i> , <b>2009</b> , 96, 3897-916	2.9	24
88	Kinetics of intracellular ice formation in one-dimensional arrays of interacting biological cells. <i>Biophysical Journal</i> , <b>2005</b> , 88, 647-60	2.9	24
87	A microscale, full-thickness, human skin on a chip assay simulating neutrophil responses to skin infection and antibiotic treatments. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3094-3103	7.2	21
86	The reaction microscope: imaging and pulse shaping control in photodynamics. <i>ChemPhysChem</i> , <b>2011</b> , 12, 1459-73	3.2	21
85	A microfluidic bioreactor for increased active retrovirus output. <i>Lab on A Chip</i> , <b>2008</b> , 8, 75-80	7.2	21
84	Netrin-1 Augments Chemokinesis in CD4+ T Cells In Vitro and Elicits a Proinflammatory Response In Vivo. <i>Journal of Immunology</i> , <b>2016</b> , 197, 1389-98	5.3	20
83	Capillary plexuses are vulnerable to neutrophil extracellular traps. <i>Integrative Biology (United Kingdom)</i> , <b>2016</b> , 8, 149-55	3.7	19
82	On-demand, competing gradient arrays for neutrophil chemotaxis. <i>Lab on A Chip</i> , <b>2014</b> , 14, 972-978	7.2	18
81	Desiccation kinetics of biopreservation solutions in microchannels. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 2181280	2.5	18
80	Neutrophils self-limit swarming to contain bacterial growth in vivo. <i>Science</i> , <b>2021</b> , 372,	33.3	18
79	Development of a Cell Patterning Technique Using Poly(Ethylene Glycol) Disilane. <i>Biomedical Microdevices</i> , <b>2003</b> , 5, 185-194	3.7	17
78	Big insights from small volumes: deciphering complex leukocyte behaviors using microfluidics. <i>Journal of Leukocyte Biology</i> , <b>2016</b> , 100, 291-304	6.5	17
77	Microfluidic mazes to characterize T-cell exploration patterns following activation in vitro. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 1423-31	3.7	16
76	Convergent and Divergent Migratory Patterns of Human Neutrophils inside Microfluidic Mazes. <i>Scientific Reports</i> , <b>2018</b> , 8, 1887	4.9	16
75	Microfluidic platform for measuring neutrophil chemotaxis from unprocessed whole blood. <i>Journal of Visualized Experiments</i> , <b>2014</b> ,	1.6	15



74	Technical Advance: Changes in neutrophil migration patterns upon contact with platelets in a microfluidic assay. <i>Journal of Leukocyte Biology</i> , <b>2017</b> , 101, 797-806	6.5	15
73	Toward elucidating the mechanism of femtosecond pulse shaping control in photodynamics of molecules by velocity map photoelectron and ion imaging. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 234302 <sup>9</sup>	3.9	15
72	Microfluidic arenas for war games between neutrophils and microbes. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1205-1216	6.2	14
71	Spleen Tyrosine Kinase Is a Critical Regulator of Neutrophil Responses to Species. <i>MBio</i> , <b>2020</b> , 11,	7.8	14
70	Genome-wide transcriptome analysis of 150 cell samples. <i>Integrative Biology (United Kingdom)</i> , <b>2009</b> , 1, 99-107	3.7	14
69	A Worldwide Competition to Compare the Speed and Chemotactic Accuracy of Neutrophil-Like Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154491	3.7	14
68	Cell migration in confined environments. <i>Methods in Cell Biology</i> , <b>2014</b> , 121, 141-53	1.8	13
67	Coherent oscillatory femtosecond dynamics in multichannel photodynamics of NO <sub>2</sub> studied by spatially masked electron imaging. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 3157-66	2.8	13
66	Kidney and Liver Injuries After Major Burns in Rats Are Prevented by Resolvin D2. <i>Critical Care Medicine</i> , <b>2016</b> , 44, e241-52	1.4	13
65	"Universal" vitrification of cells by ultra-fast cooling. <i>Technology</i> , <b>2015</b> , 3, 64-71	3	12
64	Temporal gradients limit the accumulation of neutrophils towards sources of chemoattractant. <i>Microsystems and Nanoengineering</i> , <b>2017</b> , 3,	7.7	11
63	Bifunctional Small Molecules Enhance Neutrophil Activities Against and. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 644	8.4	11
62	A neutrophil treadmill to decouple spatial and temporal signals during chemotaxis. <i>Lab on A Chip</i> , <b>2015</b> , 15, 549-556	7.2	11
61	New methods for investigation of neuronal migration in embryonic brain explants. <i>Journal of Neuroscience Methods</i> , <b>2015</b> , 239, 80-4	3	11
60	Chemotaxing neutrophils enter alternate branches at capillary bifurcations. <i>Nature Communications</i> , <b>2020</b> , 11, 2385	17.4	11
59	A portable chemotaxis platform for short and long term analysis. <i>PLoS ONE</i> , <b>2012</b> , 7, e44995	3.7	11
58	Impact of toll-like receptor 4 stimulation on human neonatal neutrophil spontaneous migration, transcriptomics, and cytokine production. <i>Journal of Molecular Medicine</i> , <b>2018</b> , 96, 673-684	5.5	11
57	Microfluidic Assay Measures Increased Neutrophil Extracellular Traps Circulating in Blood after Burn Injuries. <i>Scientific Reports</i> , <b>2018</b> , 8, 16983	4.9	10



56	Translational implications of endothelial cell dysfunction in association with chronic allograft rejection. <i>Pediatric Nephrology</i> , <b>2016</b> , 31, 41-51	3.2	9
55	Progressive mechanical confinement of chemotactic neutrophils induces arrest, oscillations, and retrotaxis. <i>Journal of Leukocyte Biology</i> , <b>2018</b> , 104, 1253-1261	6.5	9
54	Mimicry of Central-Peripheral Immunity in Alzheimer's Disease and Discovery of Neurodegenerative Roles in Neutrophil. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 2231	8.4	9
53	Microfluidic platform to evaluate migration of cells from patients with DYT1 dystonia. <i>Journal of Neuroscience Methods</i> , <b>2014</b> , 232, 181-188	3	9
52	Resolvin D2 Limits Secondary Tissue Necrosis After Burn Wounds in Rats. <i>Journal of Burn Care and Research</i> , <b>2018</b> , 39, 423-432	0.8	9
51	Stochastic variations of migration speed between cells in clonal populations. <i>Technology</i> , <b>2014</b> , 2, 185-188		9
50	On a chip. <i>IEEE Pulse</i> , <b>2011</b> , 2, 19-27	0.7	9
49	Photoelectron photoion coincidence imaging of ultrafast control in multichannel molecular dynamics. <i>Faraday Discussions</i> , <b>2011</b> , 153, 173-87; discussion 189-212	3.6	9
48	Microstructured Surface Arrays for Injection of Zebrafish Larvae. <i>Zebrafish</i> , <b>2017</b> , 14, 140-145	2	8
47	Fast sorting of CD4+ T cells from whole blood using glass microbubbles. <i>Technology</i> , <b>2015</b> , 3, 38-44	3	8
46	Preservative solution that stabilizes erythrocyte morphology and leukocyte viability under ambient conditions. <i>Scientific Reports</i> , <b>2017</b> , 7, 5658	4.9	8
45	The Arp2/3 inhibitory protein Arpin is dispensable for chemotaxis. <i>Biology of the Cell</i> , <b>2017</b> , 109, 162-166	3.5	7
44	Microfluidics for T-lymphocyte cell separation and inflammation monitoring in burn patients. <i>Clinical and Translational Science</i> , <b>2011</b> , 4, 63-8	4.9	7
43	Chemical gradient-mediated melting curve analysis for genotyping of SNPs. <i>Electrophoresis</i> , <b>2009</b> , 30, 2536-43	3.6	7
42	Practical challenges in the energy-based control of molecular transformations in chemical reactors. <i>AIChE Journal</i> , <b>2014</b> , 60, 3392-3405	3.6	6
41	Rapid antibiotic sensitivity testing in microwell arrays. <i>Technology</i> , <b>2017</b> , 5, 107-114	3	6
40	Controlled induction of distributed microdeformation in wounded tissue via a microchamber array dressing. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 95, 333-40	5.4	6
39	Neutrophil Chemotaxis in One Droplet of Blood Using Microfluidic Assays. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1749, 351-360	1.4	5

38	Dynamic Profiling of Antitumor Activity of CAR T Cells Using Micropatterned Tumor Arrays. <i>Advanced Science</i> , <b>2019</b> , 6, 1901829	13.6	5
37	Chemotaxis and swarming in differentiated HL-60 neutrophil-like cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 778	4.9	5
36	Loss of Coordinated Neutrophil Responses to the Human Fungal Pathogen, , in Patients With Cirrhosis. <i>Hepatology Communications</i> , <b>2021</b> , 5, 502-515	6	5
35	Sepsis is associated with reduced spontaneous neutrophil migration velocity in human adults. <i>PLoS ONE</i> , <b>2018</b> , 13, e0205327	3.7	5
34	Large-scale patterning of living colloids for dynamic studies of neutrophil-microbe interactions. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1514-1520	7.2	5
33	Neutrophil Profiles of Pediatric COVID-19 and Multisystem Inflammatory Syndrome in Children. <b>2021</b> ,		5
32	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. <i>Scientific Reports</i> , <b>2020</b> , 10, 4621	4.9	4
31	Neutrophil functional profiling and cytokine augmentation for patients with multiple recurrent infections: A case study. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , <b>2021</b> , 9, 986-988	5.4	4
30	Parametric analysis of intercellular ice propagation during cryosurgery, simulated using monte carlo techniques. <i>Technology in Cancer Research and Treatment</i> , <b>2004</b> , 3, 113-23	2.7	3
29	Resolvin T-series Reduce Neutrophil Extracellular Traps. <i>Blood</i> , <b>2021</b> ,	2.2	3
28	Dynamics of diffusive cell signaling relays. <i>ELife</i> , <b>2020</b> , 9,	8.9	3
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26	Cytokine Augmentation Reverses Transplant Recipient Neutrophil Dysfunction Against the Human Fungal Pathogen Candida albicans. <i>Journal of Infectious Diseases</i> , <b>2021</b> , 224, 894-902	7	3
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23	Trapped Chromatin Fibers Damage Flowing Red Blood Cells. <i>Advanced Biology</i> , <b>2018</b> , 2, 1800040	3.5	2
22	Microstructured Devices for Optimized Microinjection and Imaging of Zebrafish Larvae. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	2
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19	Directional reorientation of migrating neutrophils is limited by suppression of receptor input signaling at the cell rear through myosin II activity. <i>Nature Communications</i> , <b>2021</b> , 12, 6619	17.4	2
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16	Crowdsourced analysis of fungal growth and branching on microfluidic platforms. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257823	3.7	2
15	Chemotaxis and swarming in differentiated HL60 neutrophil-like cells		1
14	Megakaryocytes Display Innate Immune Cell Functions and Respond during Sepsis		1
13	Directional reorientation of migrating neutrophils is limited by suppression of receptor input signaling at the cell rear through myosin II activity		1
12	Patterning of interconnected human brain spheroids. <i>Lab on A Chip</i> , <b>2021</b> , 21, 3532-3540	7.2	1
11	Human erythrocyte fragmentation during ex-vivo pig organ perfusion.. <i>Xenotransplantation</i> , <b>2022</b> , e127298	2.8	0
10	Microfluidic Assays for Probing Neutrophil-Borrelia Interactions in Blood During Lyme Disease. <i>Cells Tissues Organs</i> , <b>2021</b> , 1-11	2.1	0
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