SavaÅ Tay

List of Publications by Year in descending order

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Version: 2024-02-01

44 papers	3,983 citations	201674 27 h-index	243625 44 g-index
62 all docs	62 docs citations	62 times ranked	5764 citing authors

#	Article	IF	Citations
1	Single-cell NF-Î¹B dynamics reveal digital activation and analogue information processing. Nature, 2010, 466, 267-271.	27.8	736
2	An updatable holographic three-dimensional display. Nature, 2008, 451, 694-698.	27.8	400
3	Microfluidic cell culture. Current Opinion in Biotechnology, 2014, 25, 95-102.	6.6	315
4	Noise Facilitates Transcriptional Control under Dynamic Inputs. Cell, 2015, 160, 381-392.	28.9	201
5	Automated microfluidic platform for dynamic and combinatorial drug screening of tumor organoids. Nature Communications, 2020, 11, 5271.	12.8	195
6	Masitinib is a broad coronavirus 3CL inhibitor that blocks replication of SARS-CoV-2. Science, 2021, 373, 931-936.	12.6	173
7	Digital Quantification of Proteins and mRNA in Single Mammalian Cells. Molecular Cell, 2016, 61, 914-924.	9.7	154
8	High-Content Quantification of Single-Cell Immune Dynamics. Cell Reports, 2016, 15, 411-422.	6.4	117
9	HSV-1 single-cell analysis reveals the activation of anti-viral and developmental programs in distinct sub-populations. ELife, 2019, 8, .	6.0	112
10	High-throughput microfluidic single-cell analysis pipeline for studies of signaling dynamics. Nature Protocols, 2014, 9, 1713-1726.	12.0	110
11	Migration of cells in a social context. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 129-134.	7.1	97
12	Single-Cell Proteomics. Trends in Biochemical Sciences, 2021, 46, 661-672.	7.5	96
13	Microfluidic single-cell analysis for systems immunology. Lab on A Chip, 2014, 14, 1246.	6.0	82
14	Cannabidiol inhibits SARS-CoV-2 replication through induction of the host ER stress and innate immune responses. Science Advances, 2022, 8, .	10.3	77
15	Droplet-based high-throughput cultivation for accurate screening of antibiotic resistant gut microbes. ELife, 2020, 9, .	6.0	73
16	The Immune-Metabolic Basis of Effector Memory CD4+ T Cell Function under Hypoxic Conditions. Journal of Immunology, 2016, 196, 106-114.	0.8	72
17	A microfluidic device for measuring cell migration towards substrate-bound and soluble chemokine gradients. Scientific Reports, 2016, 6, 36440.	3.3	69
18	Digital signaling decouples activation probability and population heterogeneity. ELife, 2015, 4, e08931.	6.0	60

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19	Spontaneous NF-ÎºB Activation by Autocrine TNFÎ± Signaling: A Computational Analysis. PLoS ONE, 2013, 8, e78887.	2.5	57
20	Flow-switching allows independently programmable, extremely stable, high-throughput diffusion-based gradients. Lab on A Chip, 2013, 13, 1273.	6.0	54
21	An Updatable Holographic Display for 3D Visualization. Journal of Display Technology, 2008, 4, 424-430.	1.2	45
22	Cellular Decision Making by Non-Integrative Processing of TLR Inputs. Cell Reports, 2017, 19, 125-135.	6.4	45
23	Noise Induces Hopping between NF-ÎºB Entrainment Modes. Cell Systems, 2016, 3, 532-539.e3.	6.2	44
24	Ultra-sensitive digital quantification of proteins and mRNA in single cells. Nature Communications, 2019, 10, 3544.	12.8	44
25	Photorefractive polymer composite operating at the optical communication wavelength of 1550 nm. Applied Physics Letters, 2004, 85, 4561-4563.	3.3	43
26	Ultra-multiplexed analysis of single-cell dynamics reveals logic rules in differentiation. Science Advances, 2019, 5, eaav7959.	10.3	40
27	NF-ÎºB responds to absolute differences in cytokine concentrations. Science Signaling, 2021, 14, .	3.6	34
28	Real-time tracking, retrieval and gene expression analysis of migrating human T cells. Lab on A Chip, 2015, 15, 1276-1283.	6.0	31
29	Discovery of SARS-CoV-2 main protease inhibitors using a synthesis-directed de novo design model. Chemical Communications, 2021, 57, 5909-5912.	4.1	30
30	Automated co-culture system for spatiotemporal analysis of cell-to-cell communication. Lab on A Chip, 2015, 15, 2192-2200.	6.0	29
31	Integrated platform for cell culture and dynamic quantification of cell secretion. Lab on A Chip, 2017, 17, 4124-4133.	6.0	29
32	Viable cell culture in PDMS-based microfluidic devices. Methods in Cell Biology, 2018, 148, 3-33.	1.1	29
33	Automated Microfluidic System for Dynamic Stimulation and Tracking of Single Cells. Analytical Chemistry, 2018, 90, 10695-10700.	6.5	29
34	High-throughput RNA sequencing of paraformaldehyde-fixed single cells. Nature Communications, 2021, 12, 5636.	12.8	29
35	Ultrasensitive digital quantification of cytokines and bacteria predicts septic shock outcomes. Nature Communications, 2020, 11, 2607.	12.8	25
36	Sensitive detection and quantification of SARS-CoV-2 in saliva. Scientific Reports, 2021, 11, 12425.	3.3	24

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37	Universal signal generator for dynamic cell stimulation. Lab on A Chip, 2017, 17, 2218-2224.	6.0	15
38	Cannabidiol inhibits SARS-CoV-2 replication through induction of the host ER stress and innate immune responses.. Science Advances, 2022, , eabi6110.	10.3	11
39	Computer vision reveals hidden variables underlying NF-Î²B activation in single cells. Science Advances, 2021, 7, eabg4135.	10.3	10
40	Toward high-throughput biomechanical phenotyping of single molecules. Nature Methods, 2015, 12, 45-46.	19.0	9
41	COVIDomic: A multi-modal cloud-based platform for identification of risk factors associated with COVID-19 severity. PLoS Computational Biology, 2021, 17, e1009183.	3.2	7
42	Editorial overview: Analytical biotechnology: New technologies for quantitative analysis of biological specimens and natural products. Current Opinion in Biotechnology, 2014, 25, iv-vi.	6.6	3
43	Single-Cell Analysis: The Differences That Kill. Cell, 2015, 162, 1208-1210.	28.9	3
44	Ultra-Sensitive Quantification of Protein and mRNA in Single Mammalian Cells with Digital PLA. Methods in Molecular Biology, 2022, 2386, 157-169.	0.9	1