Rong Fan

List of Publications by Year
in descending order

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Version: 2024-02-01

76 papers	6,520 citations	101543 36 h-index	95266 68 g-index
93 all docs	93 docs citations	93 times ranked	10663 citing authors

#	Article	IF	Citations
1	Th17 cells transdifferentiate into regulatory T cells during resolution of inflammation. Nature, 2015, 523, 221-225.	27.8	653
2	Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood. Nature Biotechnology, 2008, 26, 1373-1378.	17.5	507
3	High-Spatial-Resolution Multi-Omics Sequencing via Deterministic Barcoding in Tissue. Cell, 2020, 183, 1665-1681.e18.	28.9	423
4	A clinical microchip for evaluation of single immune cells reveals high functional heterogeneity in phenotypically similar T cells. Nature Medicine, 2011, 17, 738-743.	30.7	403
5	Single-cell proteomic chip for profiling intracellular signaling pathways in single tumor cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 419-424.	7.1	300
6	JAKâ€“STAT Pathway Activation in Malignant and Nonmalignant Cells Contributes to MPN Pathogenesis and Therapeutic Response. Cancer Discovery, 2015, 5, 316-331.	9.4	252
7	Preinfusion polyfunctional anti-CD19 chimeric antigen receptor T cells are associated with clinical outcomes in NHL. Blood, 2018, 132, 804-814.	1.4	246
8	Highly multiplexed profiling of single-cell effector functions reveals deep functional heterogeneity in response to pathogenic ligands. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E607-15.	7.1	245
9	Immune Escape in Breast Cancer During In Situ to Invasive Carcinoma Transition. Cancer Discovery, 2017, 7, 1098-1115.	9.4	185
10	Nonstochastic Reprogramming from a Privileged Somatic Cell State. Cell, 2014, 156, 649-662.	28.9	168
11	High-Throughput Secretomic Analysis of Single Cells to Assess Functional Cellular Heterogeneity. Analytical Chemistry, 2013, 85, 2548-2556.	6.5	156
12	INORGANIC SEMICONDUCTOR NANOWIRES. International Journal of Nanoscience, 2002, 01, 1-39.	0.7	155
13	Transcriptomic taxonomy and neurogenic trajectories of adult human, macaque, and pig hippocampal and entorhinal cells. Neuron, 2022, 110, 452-469.e14.	8.1	142
14	Spatial-CUT&Tag: Spatially resolved chromatin modification profiling at the cellular level. Science, 2022, 375, 681-686.	12.6	138
15	Synergistic IL-6 and IL-8 paracrine signalling pathway infers a strategy to inhibit tumour cell migration. Nature Communications, 2017, 8, 15584.	12.8	133
16	Analysis of single-cell cytokine secretion reveals a role for paracrine signaling in coordinating macrophage responses to TLR4 stimulation. Science Signaling, 2015, 8, ra59.	3.6	126
17	Nanowire Substrate-Based Laser Scanning Cytometry for Quantitation of Circulating Tumor Cells. Nano Letters, 2012, 12, 2697-2704.	9.1	123
18	Single-cell microRNA-mRNA co-sequencing reveals non-genetic heterogeneity and mechanisms of microRNA regulation. Nature Communications, 2019, 10, 95.	12.8	123

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19	scFTD-seq: freeze-thaw lysis based, portable approach toward highly distributed single-cell 3â€² mRNA profiling. Nucleic Acids Research, 2019, 47, e16-e16.	14.5	117
20	A promising biodegradable magnesium alloy suitable for clinical vascular stent application. Scientific Reports, 2017, 7, 46343.	3.3	114
21	Subclonal cooperation drives metastasis by modulating local and systemic immune microenvironments. Nature Cell Biology, 2019, 21, 879-888.	10.3	114
22	Enhanced Bioactivity of Mgâ€“Ndâ€“Znâ€“Zr Alloy Achieved with Nanoscale MgF‹sub›2‹/sub› Surface for Vascular Stent Application. ACS Applied Materials & Interfaces, 2015, 7, 5320-5330.	8.0	106
23	Single-cell multiplexed cytokine profiling of CD19 CAR-T cells reveals a diverse landscape of polyfunctional antigen-specific response. , 2017, 5, 85.		102
24	m6A Modification Prevents Formation of Endogenous Double-Stranded RNAs and Deleterious Innate Immune Responses during Hematopoietic Development. Immunity, 2020, 52, 1007-1021.e8.	14.3	99
25	Functional Bimorph Composite Nanotapes. Nano Letters, 2002, 2, 1109-1112.	9.1	96
26	Nanophasic biodegradation enhances the durability and biocompatibility of magnesium alloys for the next-generation vascular stents. Nanoscale, 2013, 5, 9517.	5.6	91
27	Single-cell Analysis of CAR-T Cell Activation Reveals A Mixed TH1/TH2 Response Independent of Differentiation. Genomics, Proteomics and Bioinformatics, 2019, 17, 129-139.	6.9	77
28	Biophysical and biomolecular determination of cellular age in humans. Nature Biomedical Engineering, 2017, 1, .	22.5	74
29	Ex vivo Dynamics of Human Glioblastoma Cells in a Microvasculatureâ€onâ€aâ€Chip System Correlates with Tumor Heterogeneity and Subtypes. Advanced Science, 2019, 6, 1801531.	11.2	69
30	Co-detection and sequencing of genes and transcripts from the same single cells facilitated by a microfluidics platform. Scientific Reports, 2014, 4, 6485.	3.3	65
31	Single-cell antigen-specific landscape of CAR T infusion product identifies determinants of CD19-positive relapse in patients with ALL. Science Advances, 2022, 8, .	10.3	63
32	Interfacing Inorganic Nanowire Arrays and Living Cells for Cellular Function Analysis. Small, 2015, 11, 5600-5610.	10.0	50
33	Single-Cell Omics Analyses Enabled by Microchip Technologies. Annual Review of Biomedical Engineering, 2019, 21, 365-393.	12.3	49
34	Chemistries for Patterning Robust DNA MicroBarcodes Enable Multiplex Assays of Cytoplasm Proteins from Single Cancer Cells. ChemPhysChem, 2010, 11, 3063-3069.	2.1	47
35	A microchip platform for interrogating tumorâ€“macrophage paracrine signaling at the single-cell level. Lab on A Chip, 2014, 14, 3582-3588.	6.0	47
36	Microchip platforms for multiplex single-cell functional proteomics with applications to immunology and cancer research. Genome Medicine, 2013, 5, 75.	8.2	46

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37	Single-Cell Protein Secretion Detection and Profiling. Annual Review of Analytical Chemistry, 2019, 12, 431-449.	5.4	46
38	Perturbed myoepithelial cell differentiation in BRCA mutation carriers and in ductal carcinoma in situ. Nature Communications, 2019, 10, 4182.	12.8	37
39	Specific rare cell capture using micro-patterned silicon nanowire platform. Biosensors and Bioelectronics, 2014, 54, 181-188.	10.1	36
40	Single Cell Functional Proteomics for Assessing Immune Response in Cancer Therapy: Technology, Methods, and Applications. Frontiers in Oncology, 2013, 3, 133.	2.8	33
41	Pan-Cancer Analyses Reveal Long Intergenic Non-Coding RNAs Relevant to Tumor Diagnosis, Subtyping and Prognosis. EBioMedicine, 2016, 7, 62-72.	6.1	33
42	A quartz nanopillar hemocytometer for high-yield separation and counting of CD4+ T lymphocytes. Nanoscale, 2012, 4, 2500.	5.6	31
43	Bisulfite-independent analysis of CpG island methylation enables genome-scale stratification of single cells. Nucleic Acids Research, 2017, 45, gkx026.	14.5	31
44	Single-cell multiomics dissection of basal and antigen-specific activation states of CD19-targeted CAR T cells. , 2021, 9, e002328.		31
45	Leukocyte Cytoskeleton Polarization Is Initiated by Plasma Membrane Curvature from Cell Attachment. Developmental Cell, 2019, 49, 206-219.e7.	7.0	27
46	In silico Experimentation of Glioma Microenvironment Development and Anti-tumor Therapy. PLoS Computational Biology, 2012, 8, e1002355.	3.2	26
47	Multiplexed, Sequential Secretion Analysis of the Same Single Cells Reveals Distinct Effector Response Dynamics Dependent on the Initial Basal State. Advanced Science, 2019, 6, 1801361.	11.2	26
48	An Integrated Dielectrophoresis-Trapping and Nanowell Transfer Approach to Enable Double-Sub-Poisson Single-Cell RNA Sequencing. ACS Nano, 2020, 14, 7412-7424.	14.6	25
49	High-content single-cell analysis on-chip using a laser microarray scanner. Lab on A Chip, 2012, 12, 5025.	6.0	20
50	Spatial multi-omics sequencing for fixed tissue via DBiT-seq. STAR Protocols, 2021, 2, 100532.	1.2	20
51	Convergent Identification and Interrogation of Tumor-Intrinsic Factors that Modulate Cancer Immunity InÂVivo. Cell Systems, 2019, 8, 136-151.e7.	6.2	14
52	Single-Cell Transcriptomics Revealed Subtype-Specific Tumor Immune Microenvironments in Human Glioblastomas. Frontiers in Immunology, 2022, 13, .	4.8	14
53	Nanowire array chips for molecular typing of rare trafficking leukocytes with application to neurodegenerative pathology. Nanoscale, 2014, 6, 6537-6550.	5.6	13
54	Senescent Cells with Augmented Cytokine Production for Microvascular Bioengineering and Tissue Repairs. Advanced Biology, 2019, 3, 1900089.	3.0	12

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55	Filopodial Morphology Correlates to the Capture Efficiency of Primary T-Cells on Nanohole Arrays. Journal of Biomedical Nanotechnology, 2014, 10, 1030-1040.	1.1	9
56	ZNF117 regulates glioblastoma stem cell differentiation towards oligodendroglial lineage. Nature Communications, 2022, 13, 2196.	12.8	9
57	Advanced Single-cell Omics Technologies and Informatics Tools for Genomics, Proteomics, and Bioinformatics Analysis. Genomics, Proteomics and Bioinformatics, 2021, 19, 343-345.	6.9	8
58	IL-7 receptor alpha defines heterogeneity and signature of human effector memory CD8+ T cells in high dimensional analysis. Cellular Immunology, 2020, 355, 104155.	3.0	7
59	Single symbiotic cell transcriptome sequencing of coral. Genomics, 2020, 112, 5305-5312.	2.9	5
60	Single-cell Analysis Technologies for Immuno-oncology Research: from Mechanistic Delineation to Biomarker Discovery. Genomics, Proteomics and Bioinformatics, 2021, 19, 191-207.	6.9	5
61	Mission, Organization, and Future Direction of the Serological Sciences Network for COVID-19 (SeroNet) Epidemiologic Cohort Studies. Open Forum Infectious Diseases, 2022, 9, .	0.9	5
62	Unmixing for ultra-high-plex fluorescence imaging. Nature Communications, 2022, 13, .	12.8	5
63	Single-Crystalline, Nanoporous Gallium Nitride Films With Fine Tuning of Pore Size for Stem Cell Engineering. Journal of Nanotechnology in Engineering and Medicine, 2014, 5, 0410041-410049.	0.8	4
64	Capture, amplification, and global profiling of microRNAs from low quantities of whole cell lysate. Analyst, The, 2017, 142, 3203-3211.	3.5	4
65	Cancer Immunotherapy and Next-Generation Clinical Immune Assessment. Frontiers in Oncology, 2014, 4, 265.	2.8	3
66	Single-Cell Cytokine Profiling to Investigate Cellular Functional Diversity in Hematopoietic Malignancies. Methods in Molecular Biology, 2016, 1465, 243-254.	0.9	3
67	Multiplexed PCR-Free Detection of MicroRNAs in Single Cancer Cells Using a DNA-Barcoded Microtrough Array Chip. Micromachines, 2019, 10, 215.	2.9	3
68	Increased Interleukin-8 (IL8)-CXCR2 Signaling Promotes Progression of Bone Marrow Fibrosis in Myeloproliferative Neoplasms. Blood, 2020, 136, 6-7.	1.4	3
69	High-Throughput Secretomic Analysis of Single Cells to Assess Functional Cellular Heterogeneity. , 2016, , 41-54.		1
70	Cancer Systems Biology in the Era of Singleâ€Cell Multiâ€Omics. Proteomics, 2020, 20, 1900106.	2.2	1
71	Fabrication and characterization of field effect reconfigurable nanofluidic ionic diodes: Towards digitally-programmed manipulation of biomolecules. , 2012, , .		0
72	Immuno-DNA-directed Assembly of Heterotypic Multicellular Systems. Chemistry Letters, 2013, 42, 512-514.	1.3	0

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73	Special Issue on Singleâ€Cell Multiomics for Immunoâ€Oncology and Cancer Systems Biology. Proteomics, 2019, 19, e1900235.	2.2	0
74	Organâ€onâ€aâ€Chip: Ex vivo Dynamics of Human Glioblastoma Cells in a Microvasculatureâ€onâ€aâ€Chip System Correlates with Tumor Heterogeneity and Subtypes (Adv. Sci. 8/2019). Advanced Science, 2019, 6, 1970046.	11.2	0
75	Singleâ€Cell Cytokine Assays: Multiplexed, Sequential Secretion Analysis of the Same Single Cells Reveals Distinct Effector Response Dynamics Dependent on the Initial Basal State (Adv. Sci. 9/2019). Advanced Science, 2019, 6, 1970055.	11.2	0
76	Single-Cell Cytokine Analysis to Characterize CAR-T Cell Activation. Methods in Molecular Biology, 2020, 2097, 67-81.	0.9	0