

Fan Bai

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

7,732
citations

101543

36
h-index

62596

80
g-index

93
all docs

93
docs citations

93
times ranked

11965
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic and Transcriptomic Landscape of Triple-Negative Breast Cancers: Subtypes and Treatment Strategies. <i>Cancer Cell</i> , 2019, 35, 428-440.e5.	16.8	571
2	Stoichiometry and turnover in single, functioning membrane protein complexes. <i>Nature</i> , 2006, 443, 355-358.	27.8	559
3	COVID-19 immune features revealed by a large-scale single-cell transcriptome atlas. <i>Cell</i> , 2021, 184, 1895-1913.e19.	28.9	512
4	Single-cell landscape of immunological responses in patients with COVID-19. <i>Nature Immunology</i> , 2020, 21, 1107-1118.	14.5	508
5	Reproducible copy number variation patterns among single circulating tumor cells of lung cancer patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 21083-21088.	7.1	396
6	TGF- β -induced epithelial-to-mesenchymal transition proceeds through stepwise activation of multiple feedback loops. <i>Science Signaling</i> , 2014, 7, ra91.	3.6	395
7	Enhanced Efflux Activity Facilitates Drug Tolerance in Dormant Bacterial Cells. <i>Molecular Cell</i> , 2016, 62, 284-294.	9.7	317
8	Spatiotemporal Immune Landscape of Colorectal Cancer Liver Metastasis at Single-Cell Level. <i>Cancer Discovery</i> , 2022, 12, 134-153.	9.4	286
9	Probing Meiotic Recombination and Aneuploidy of Single Sperm Cells by Whole-Genome Sequencing. <i>Science</i> , 2012, 338, 1627-1630.	12.6	273
10	ATP-Dependent Dynamic Protein Aggregation Regulates Bacterial Dormancy Depth Critical for Antibiotic Tolerance. <i>Molecular Cell</i> , 2019, 73, 143-156.e4.	9.7	221
11	Metabolic-Pathway-Based Subtyping of Triple-Negative Breast Cancer Reveals Potential Therapeutic Targets. <i>Cell Metabolism</i> , 2021, 33, 51-64.e9.	16.2	211
12	Potential therapeutic effects of dipyridamole in the severely ill patients with COVID-19. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 1205-1215.	12.0	193
13	Genomic and Transcriptomic Profiling of Combined Hepatocellular and Intrahepatic Cholangiocarcinoma Reveals Distinct Molecular Subtypes. <i>Cancer Cell</i> , 2019, 35, 932-947.e8.	16.8	182
14	Variable Intra-Tumor Genomic Heterogeneity of Multiple Lesions in Patients With Hepatocellular Carcinoma. <i>Gastroenterology</i> , 2016, 150, 998-1008.	1.3	178
15	Conformational Spread as a Mechanism for Cooperativity in the Bacterial Flagellar Switch. <i>Science</i> , 2010, 327, 685-689.	12.6	176
16	Mucosal Profiling of Pediatric-Onset Colitis and IBD Reveals Common Pathogenics and Therapeutic Pathways. <i>Cell</i> , 2019, 179, 1160-1176.e24.	28.9	163
17	Macroscopic somatic clonal expansion in morphologically normal human urothelium. <i>Science</i> , 2020, 370, 82-89.	12.6	115
18	Single-cell transcriptomic analysis defines the interplay between tumor cells, viral infection, and the microenvironment in nasopharyngeal carcinoma. <i>Cell Research</i> , 2020, 30, 950-965.	12.0	111

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19	A body map of somatic mutagenesis in morphologically normal human tissues. <i>Nature</i> , 2021, 597, 398-403.	27.8	107
20	Torque-speed relationship of the bacterial flagellar motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1260-1265.	7.1	103
21	Genomic comparison of esophageal squamous cell carcinoma and its precursor lesions by multi-region whole-exome sequencing. <i>Nature Communications</i> , 2017, 8, 524.	12.8	103
22	Decoding the multicellular ecosystem of lung adenocarcinoma manifested as pulmonary subsolid nodules by single-cell RNA sequencing. <i>Science Advances</i> , 2021, 7, .	10.3	88
23	Assembly and stoichiometry of <i>FliF</i> and <i>FlhA</i> in <i>Salmonella</i> flagellar basal body. <i>Molecular Microbiology</i> , 2014, 91, 1214-1226.	2.5	86
24	Graded regulation of cellular quiescence depth between proliferation and senescence by a lysosomal dimmer switch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22624-22634.	7.1	84
25	Single-cell sequencing deciphers a convergent evolution of copy number alterations from primary to circulating tumor cells. <i>Genome Research</i> , 2017, 27, 1312-1322.	5.5	81
26	Thermophoretic Manipulation of DNA Translocation through Nanopores. <i>ACS Nano</i> , 2013, 7, 538-546.	14.6	77
27	Single-cell sequencing of immune cells from anticitrullinated peptide antibody positive and negative rheumatoid arthritis. <i>Nature Communications</i> , 2021, 12, 4977.	12.8	73
28	Assembly dynamics and the roles of <i>FliI</i> ATPase of the bacterial flagellar export apparatus. <i>Scientific Reports</i> , 2014, 4, 6528.	3.3	72
29	Liver Immune Profiling Reveals Pathogenesis and Therapeutics for Biliary Atresia. <i>Cell</i> , 2020, 183, 1867-1883.e26.	28.9	70
30	Mapping the spreading routes of lymphatic metastases in human colorectal cancer. <i>Nature Communications</i> , 2020, 11, 1993.	12.8	68
31	Inferring the Evolution and Progression of Small-Cell Lung Cancer by Single-Cell Sequencing of Circulating Tumor Cells. <i>Clinical Cancer Research</i> , 2019, 25, 5049-5060.	7.0	66
32	Dynamics of <i>Escherichia coli</i> 's passive response to a sudden decrease in external osmolarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5838-E5846.	7.1	57
33	Lung cancer scRNA-seq and lipidomics reveal aberrant lipid metabolism for early-stage diagnosis. <i>Science Translational Medicine</i> , 2022, 14, eabk2756.	12.4	57
34	Membraneless organelles formed by liquid-liquid phase separation increase bacterial fitness. <i>Science Advances</i> , 2021, 7, eabh2929.	10.3	55
35	Transcriptional profiles of different states of cancer stem cells in triple-negative breast cancer. <i>Molecular Cancer</i> , 2018, 17, 65.	19.2	48
36	Genomic signatures of pancreatic adenosquamous carcinoma (PASC). <i>Journal of Pathology</i> , 2017, 243, 155-159.	4.5	43

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37	Early metastasis detected in patients with multifocal pulmonary ground-glass opacities (GGOs). Thorax, 2018, 73, 290-292.	5.6	43
38	Genomic characterisation of pulmonary subsolid nodules: mutational landscape and radiological features. European Respiratory Journal, 2020, 55, 1901409.	6.7	42
39	Integrative genomic study of Chinese clear cell renal cell carcinoma reveals features associated with thrombus. Nature Communications, 2020, 11, 739.	12.8	39
40	Active efflux in dormant bacterial cells “ New insights into antibiotic persistence. Drug Resistance Updates, 2017, 30, 7-14.	14.4	38
41	Molecular characterization of circulating tumor cells”from bench to bedside. Seminars in Cell and Developmental Biology, 2018, 75, 88-97.	5.0	38
42	Excessive deubiquitination of NLRP3-R779C variant contributes to very-early-onset inflammatory bowel disease development. Journal of Allergy and Clinical Immunology, 2021, 147, 267-279.	2.9	38
43	Single Cell RNA Sequencing Identifies a Unique Inflammatory Macrophage Subset as a Druggable Target for Alleviating Acute Kidney Injury. Advanced Science, 2022, 9, e2103675.	11.2	37
44	Photosynthetic Accumulation of Lutein in Auxenochlorella protothecoides after Heterotrophic Growth. Marine Drugs, 2018, 16, 283.	4.6	32
45	Frequent pauses in Escherichia coli flagella elongation revealed by single cell real-time fluorescence imaging. Nature Communications, 2018, 9, 1885.	12.8	31
46	Indole Reverses Intrinsic Antibiotic Resistance by Activating a Novel Dual-Function Importer. MBio, 2019, 10, .	4.1	31
47	A Programmable Optical Angle Clamp for Rotary Molecular Motors. Biophysical Journal, 2007, 93, 264-275.	0.5	30
48	Multi-region and single-cell sequencing reveal variable genomic heterogeneity in rectal cancer. BMC Cancer, 2017, 17, 787.	2.6	30
49	Steps and Bumps: Precision Extraction of Discrete States of Molecular Machines. Biophysical Journal, 2011, 101, 477-485.	0.5	29
50	Single-cell transcriptomics links malignant T cells to the tumor immune landscape in cutaneous T cell lymphoma. Nature Communications, 2022, 13, 1158.	12.8	29
51	Coupling between Switching Regulation and Torque Generation in Bacterial Flagellar Motor. Physical Review Letters, 2012, 108, 178105.	7.8	28
52	A General Workflow for Characterization of Nernstian Dyes and Their Effects on Bacterial Physiology. Biophysical Journal, 2020, 118, 4-14.	0.5	28
53	Length-dependent flagellar growth of Vibrio alginolyticus revealed by real time fluorescent imaging. ELife, 2017, 6, .	6.0	27
54	Apj+ Vessels Drive Tumor Growth and Represent a Tractable Therapeutic Target. Cell Reports, 2018, 25, 1241-1254.e5.	6.4	26

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55	Spatial clustering and common regulatory elements correlate with coordinated gene expression. <i>PLoS Computational Biology</i> , 2019, 15, e1006786.	3.2	26
56	Flagella and Their Properties Affect the Transport and Deposition Behaviors of <i>Escherichia coli</i> in Quartz Sand. <i>Environmental Science & Technology</i> , 2021, 55, 4964-4973.	10.0	26
57	<i>IDH</i> Mutation Subgroup Status Associates with Intratumor Heterogeneity and the Tumor Microenvironment in Intrahepatic Cholangiocarcinoma. <i>Advanced Science</i> , 2021, 8, e2101230.	11.2	26
58	Single-cell analyses of circulating tumor cells. <i>Cancer Biology and Medicine</i> , 2015, 12, 184-92.	3.0	24
59	A Delicate Nanoscale Motor Made by Nature—The Bacterial Flagellar Motor. <i>Advanced Science</i> , 2015, 2, 1500129.	11.2	23
60	Live-cell fluorescence imaging reveals dynamic production and loss of bacterial flagella. <i>Molecular Microbiology</i> , 2020, 114, 279-291.	2.5	23
61	Model Studies of the Dynamics of Bacterial Flagellar Motors. <i>Biophysical Journal</i> , 2009, 96, 3154-3167.	0.5	22
62	Mutagenic Factors and Complex Clonal Relationship of Multifocal Urothelial Cell Carcinoma. <i>European Urology</i> , 2017, 71, 841-843.	1.9	20
63	A <i>Streptococcus aquaporin</i> acts as peroxiporin for efflux of cellular hydrogen peroxide and alleviation of oxidative stress. <i>Journal of Biological Chemistry</i> , 2019, 294, 4583-4595.	3.4	20
64	Genomic and transcriptomic profiling of hepatoid adenocarcinoma of the stomach. <i>Oncogene</i> , 2021, 40, 5705-5717.	5.9	20
65	Global transcriptomic characterization of T cells in individuals with chronic HIV-1 infection. <i>Cell Discovery</i> , 2022, 8, 29.	6.7	18
66	Real-Time Visualization of Perylene Nanoclusters in Water and Their Partitioning to Graphene Surface and Macrophage Cells. <i>Environmental Science & Technology</i> , 2015, 49, 7926-7933.	10.0	17
67	Cancer biology deciphered by single-cell transcriptomic sequencing. <i>Protein and Cell</i> , 2022, 13, 167-179.	11.0	17
68	COVID-19 outbreak in Wuhan demonstrates the limitations of publicly available case numbers for epidemiological modeling. <i>Epidemics</i> , 2021, 34, 100439.	3.0	16
69	Conformational Spread in the Flagellar Motor Switch: A Model Study. <i>PLoS Computational Biology</i> , 2012, 8, e1002523.	3.2	13
70	Bacterial Flagellar Motor Switch in Response to CheY-P Regulation and Motor Structural Alterations. <i>Biophysical Journal</i> , 2016, 110, 1411-1420.	0.5	12
71	Populational Heterogeneity vs. Temporal Fluctuation in <i>Escherichia coli</i> Flagellar Motor Switching. <i>Biophysical Journal</i> , 2013, 105, 2123-2129.	0.5	11
72	Comparison of <i>Escherichia coli</i> surface attachment methods for single-cell microscopy. <i>Scientific Reports</i> , 2019, 9, 19418.	3.3	11

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73	The Effect of Face Mask Use on COVID-19 Models. <i>Epidemiologia</i> , 2021, 2, 75-83.	2.2	10
74	The genomic architecture of EBV and infected gastric tissue from precursor lesions to carcinoma. <i>Genome Medicine</i> , 2021, 13, 146.	8.2	9
75	Non-genetic individuality in <i>Escherichia coli</i> motor switching. <i>Physical Biology</i> , 2011, 8, 024001.	1.8	7
76	A race to uncover a panoramic view of primary liver cancer. <i>Cancer Biology and Medicine</i> , 2017, 14, 335.	3.0	7
77	Somatic mutation landscape reveals differential variability of cell-of-origin for primary liver cancer. <i>Heliyon</i> , 2020, 6, e03350.	3.2	7
78	Single-cell RNA sequencing reveals the multi-cellular ecosystem in different radiological components of pulmonary part-solid nodules. <i>Clinical and Translational Medicine</i> , 2022, 12, e723.	4.0	7
79	Leukaemic alterations of IKZF1 prime stemness and malignancy programs in human lymphocytes. <i>Cell Death and Disease</i> , 2018, 9, 526.	6.3	6
80	Single-cell DNA methylome analysis of circulating tumor cells. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research</i> , 2021, 33, 391-404.	2.2	6
81	Probing bacterial cell wall growth by tracing wall-anchored protein complexes. <i>Nature Communications</i> , 2021, 12, 2160.	12.8	6
82	A spatial and cellular distribution of rabies virus infection in the mouse brain revealed by fMOST and single-cell RNA sequencing. <i>Clinical and Translational Medicine</i> , 2022, 12, e700.	4.0	6
83	Single-Cell Real-Time Visualization and Quantification of Perylene Bioaccumulation in Microorganisms. <i>Environmental Science & Technology</i> , 2017, 51, 6211-6219.	10.0	3
84	Bacterial persistence. <i>Science China Chemistry</i> , 2014, 57, 1625-1633.	8.2	2
85	Slow Protein Conformational Change, Allostery and Network Dynamics. , 0, , .		1
86	Buckling behavior of cold-formed C/Z-section purlins incorporating the effects of diaphragm and the screw location. <i>Advances in Structural Engineering</i> , 2020, 23, 1114-1128.	2.4	0
87	Expression Analysis of Same-Patient Metachronous and Synchronous Upper Tract and Bladder Urothelial Carcinoma. Letter.. <i>Journal of Urology</i> , 2022, , 101097JU00000000000002698.	0.4	0