

# 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	Spatiotemporal Immune Landscape of Colorectal Cancer Liver Metastasis at Single-Cell Level. <i>Cancer Discovery</i> , 2022, 12, 134-153.	9.4	286
2	Cancer biology deciphered by single-cell transcriptomic sequencing. <i>Protein and Cell</i> , 2022, 13, 167-179.	11.0	17
3	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
4	Single Cell RNA Sequencing Identifies a Unique Inflammatory Macrophage Subset as a Druggable Target for Alleviating Acute Kidney Injury. <i>Advanced Science</i> , 2022, 9, e2103675.	11.2	37
5	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
6	Single-cell RNA sequencing reveals the multicellular ecosystem in different radiological components of pulmonary part-solid nodules. <i>Clinical and Translational Medicine</i> , 2022, 12, e723.	4.0	7
7	Single-cell transcriptomics links malignant T cells to the tumor immune landscape in cutaneous T cell lymphoma. <i>Nature Communications</i> , 2022, 13, 1158.	12.8	29
8	Global transcriptomic characterization of T cells in individuals with chronic HIV-1 infection. <i>Cell Discovery</i> , 2022, 8, 29.	6.7	18
9	Expression Analysis of Same-Patient Metachronous and Synchronous Upper Tract and Bladder Urothelial Carcinoma. <i>Letter.. Journal of Urology</i> , 2022, , 101097JU00000000000002698.	0.4	0
10	Excessive deubiquitination of NLRP3-R779C variant contributes to very-early-onset inflammatory bowel disease development. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 267-279.	2.9	38
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	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
13	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
14	The Effect of Face Mask Use on COVID-19 Models. <i>Epidemiologia</i> , 2021, 2, 75-83.	2.2	10
15	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
16	Flagella and Their Properties Affect the Transport and Deposition Behaviors of <i>Escherichia coli</i> in Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4964-4973.	10.0	26
17	COVID-19 immune features revealed by a large-scale single-cell transcriptome atlas. <i>Cell</i> , 2021, 184, 1895-1913.e19.	28.9	512
18	Probing bacterial cell wall growth by tracing wall-anchored protein complexes. <i>Nature Communications</i> , 2021, 12, 2160.	12.8	6

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19	Genomic and transcriptomic profiling of hepatoid adenocarcinoma of the stomach. <i>Oncogene</i> , 2021, 40, 5705-5717.	5.9	20
20	<i>IDH1</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
21	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
22	A body map of somatic mutagenesis in morphologically normal human tissues. <i>Nature</i> , 2021, 597, 398-403.	27.8	107
23	The genomic architecture of EBV and infected gastric tissue from precursor lesions to carcinoma. <i>Genome Medicine</i> , 2021, 13, 146.	8.2	9
24	Membraneless organelles formed by liquid-liquid phase separation increase bacterial fitness. <i>Science Advances</i> , 2021, 7, eabh2929.	10.3	55
25	Genomic characterisation of pulmonary subsolid nodules: mutational landscape and radiological features. <i>European Respiratory Journal</i> , 2020, 55, 1901409.	6.7	42
26	A General Workflow for Characterization of Nernstian Dyes and Their Effects on Bacterial Physiology. <i>Biophysical Journal</i> , 2020, 118, 4-14.	0.5	28
27	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
28	Macroscopic somatic clonal expansion in morphologically normal human urothelium. <i>Science</i> , 2020, 370, 82-89.	12.6	115
29	Liver Immune Profiling Reveals Pathogenesis and Therapeutics for Biliary Atresia. <i>Cell</i> , 2020, 183, 1867-1883.e26.	28.9	70
30	Single-cell landscape of immunological responses in patients with COVID-19. <i>Nature Immunology</i> , 2020, 21, 1107-1118.	14.5	508
31	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
32	Integrative genomic study of Chinese clear cell renal cell carcinoma reveals features associated with thrombus. <i>Nature Communications</i> , 2020, 11, 739.	12.8	39
33	Live-cell fluorescence imaging reveals dynamic production and loss of bacterial flagella. <i>Molecular Microbiology</i> , 2020, 114, 279-291.	2.5	23
34	Mapping the spreading routes of lymphatic metastases in human colorectal cancer. <i>Nature Communications</i> , 2020, 11, 1993.	12.8	68
35	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
36	Somatic mutation landscape reveals differential variability of cell-of-origin for primary liver cancer. <i>Heliyon</i> , 2020, 6, e03350.	3.2	7

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37	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
38	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
39	Indole Reverses Intrinsic Antibiotic Resistance by Activating a Novel Dual-Function Importer. <i>MBio</i> , 2019, 10, .	4.1	31
40	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
41	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
42	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
43	Spatial clustering and common regulatory elements correlate with coordinated gene expression. <i>PLoS Computational Biology</i> , 2019, 15, e1006786.	3.2	26
44	A Streptococcus aquaporin 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
45	Comparison of Escherichia coli surface attachment methods for single-cell microscopy. <i>Scientific Reports</i> , 2019, 9, 19418.	3.3	11
46	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
47	Transcriptional profiles of different states of cancer stem cells in triple-negative breast cancer. <i>Molecular Cancer</i> , 2018, 17, 65.	19.2	48
48	Early metastasis detected in patients with multifocal pulmonary ground-glass opacities (GGOs). <i>Thorax</i> , 2018, 73, 290-292.	5.6	43
49	Molecular characterization of circulating tumor cellsâ€”from bench to bedside. <i>Seminars in Cell and Developmental Biology</i> , 2018, 75, 88-97.	5.0	38
50	Apj+ Vessels Drive Tumor Growth and Represent a Tractable Therapeutic Target. <i>Cell Reports</i> , 2018, 25, 1241-1254.e5.	6.4	26
51	Frequent pauses in Escherichia coli flagella elongation revealed by single cell real-time fluorescence imaging. <i>Nature Communications</i> , 2018, 9, 1885.	12.8	31
52	Leukaemic alterations of IKZF1 prime stemness and malignancy programs in human lymphocytes. <i>Cell Death and Disease</i> , 2018, 9, 526.	6.3	6
53	Photosynthetic Accumulation of Lutein in Auxenochlorella protothecoides after Heterotrophic Growth. <i>Marine Drugs</i> , 2018, 16, 283.	4.6	32
54	Active efflux in dormant bacterial cells â€” New insights into antibiotic persistence. <i>Drug Resistance Updates</i> , 2017, 30, 7-14.	14.4	38

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55	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
56	Single-Cell Real-Time Visualization and Quantification of Perylene Bioaccumulation in Microorganisms. <i>Environmental Science &amp; Technology</i> , 2017, 51, 6211-6219.	10.0	3
57	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
58	Genomic signatures of pancreatic adenosquamous carcinoma (PASC). <i>Journal of Pathology</i> , 2017, 243, 155-159.	4.5	43
59	Mutagenic Factors and Complex Clonal Relationship of Multifocal Urothelial Cell Carcinoma. <i>European Urology</i> , 2017, 71, 841-843.	1.9	20
60	Multi-region and single-cell sequencing reveal variable genomic heterogeneity in rectal cancer. <i>BMC Cancer</i> , 2017, 17, 787.	2.6	30
61	A race to uncover a panoramic view of primary liver cancer. <i>Cancer Biology and Medicine</i> , 2017, 14, 335.	3.0	7
62	Length-dependent flagellar growth of <i>Vibrio alginolyticus</i> revealed by real time fluorescent imaging. <i>ELife</i> , 2017, 6, .	6.0	27
63	Enhanced Efflux Activity Facilitates Drug Tolerance in Dormant Bacterial Cells. <i>Molecular Cell</i> , 2016, 62, 284-294.	9.7	317
64	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
65	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
66	Variable Intra-Tumor Genomic Heterogeneity of Multiple Lesions in Patients With Hepatocellular Carcinoma. <i>Gastroenterology</i> , 2016, 150, 998-1008.	1.3	178
67	A Delicate Nanoscale Motor Made by Nature—The Bacterial Flagellar Motor. <i>Advanced Science</i> , 2015, 2, 1500129.	11.2	23
68	Real-Time Visualization of Perylene Nanoclusters in Water and Their Partitioning to Graphene Surface and Macrophage Cells. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7926-7933.	10.0	17
69	Single-cell analyses of circulating tumor cells. <i>Cancer Biology and Medicine</i> , 2015, 12, 184-92.	3.0	24
70	TGF- $\beta$ -induced epithelial-to-mesenchymal transition proceeds through stepwise activation of multiple feedback loops. <i>Science Signaling</i> , 2014, 7, ra91.	3.6	395
71	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
72	Bacterial persistence. <i>Science China Chemistry</i> , 2014, 57, 1625-1633.	8.2	2

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73	Assembly dynamics and the roles of FliI ATPase of the bacterial flagellar export apparatus. <i>Scientific Reports</i> , 2014, 4, 6528.	3.3	72
74	Thermophoretic Manipulation of DNA Translocation through Nanopores. <i>ACS Nano</i> , 2013, 7, 538-546.	14.6	77
75	Populational Heterogeneity vs. Temporal Fluctuation in <i>Escherichia coli</i> Flagellar Motor Switching. <i>Biophysical Journal</i> , 2013, 105, 2123-2129.	0.5	11
76	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
77	Conformational Spread in the Flagellar Motor Switch: A Model Study. <i>PLoS Computational Biology</i> , 2012, 8, e1002523.	3.2	13
78	Coupling between Switching Regulation and Torque Generation in Bacterial Flagellar Motor. <i>Physical Review Letters</i> , 2012, 108, 178105.	7.8	28
79	Probing Meiotic Recombination and Aneuploidy of Single Sperm Cells by Whole-Genome Sequencing. <i>Science</i> , 2012, 338, 1627-1630.	12.6	273
80	Steps and Bumps: Precision Extraction of Discrete States of Molecular Machines. <i>Biophysical Journal</i> , 2011, 101, 477-485.	0.5	29
81	Non-genetic individuality in <i>Escherichia coli</i> motor switching. <i>Physical Biology</i> , 2011, 8, 024001.	1.8	7
82	Conformational Spread as a Mechanism for Cooperativity in the Bacterial Flagellar Switch. <i>Science</i> , 2010, 327, 685-689.	12.6	176
83	Model Studies of the Dynamics of Bacterial Flagellar Motors. <i>Biophysical Journal</i> , 2009, 96, 3154-3167.	0.5	22
84	A Programmable Optical Angle Clamp for Rotary Molecular Motors. <i>Biophysical Journal</i> , 2007, 93, 264-275.	0.5	30
85	Stoichiometry and turnover in single, functioning membrane protein complexes. <i>Nature</i> , 2006, 443, 355-358.	27.8	559
86	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
87	Slow Protein Conformational Change, Allostery and Network Dynamics. , 0, , .		1