

# Zhifeng Shao

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

3,529  
citations

159585

30  
h-index

144013

57  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epithelial Cells in 2D and 3D Cultures Exhibit Large Differences in Higher-order Genomic Interactions. <i>Genomics, Proteomics and Bioinformatics</i> , 2022, 20, 101-109.	6.9	4
2	Robust Acquisition of Spatial Transcriptional Programs in Tissues With Immunofluorescence-Guided Laser Capture Microdissection. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 853188.	3.7	3
3	Single-Molecule Micromanipulation and Super-Resolution Imaging Resolve Nanodomains Underlying Chromatin Folding in Mitotic Chromosomes. <i>ACS Nano</i> , 2022, 16, 8030-8039.	14.6	7
4	Three-dimensional Quantitative Imaging of Native Microbiota Distribution in the Gut. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3055-3061.	13.8	31
5	Three-dimensional Quantitative Imaging of Native Microbiota Distribution in the Gut. <i>Angewandte Chemie</i> , 2021, 133, 3092-3098.	2.0	1
6	High-resolution single-cell 3D-models of chromatin ensembles during <i>Drosophila</i> embryogenesis. <i>Nature Communications</i> , 2021, 12, 205.	12.8	17
7	Ratiometric Raman nanotags enable intraoperative detection of metastatic sentinel lymph node. <i>Biomaterials</i> , 2021, 276, 121070.	11.4	12
8	Nanomechanical Induction of Autophagy-related Fluorescence in Single Cells with Atomic Force Microscopy. <i>Advanced Science</i> , 2021, 8, e2102989.	11.2	10
9	Monocytic THP-1 cells diverge significantly from their primary counterparts: a comparative examination of the chromosomal conformations and transcriptomes. <i>Hereditas</i> , 2021, 158, 43.	1.4	8
10	Controlling Water Flow through a Synthetic Nanopore with Permeable Cations. <i>ACS Central Science</i> , 2021, 7, 2092-2098.	11.3	8
11	Evidence for heightened genetic instability in precancerous spasmodic polypeptide expressing gastric glands. <i>Journal of Medical Genetics</i> , 2020, 57, 385-388.	3.2	6
12	Q-Nuc: a bioinformatics pipeline for the quantitative analysis of nucleosomal profiles. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2020, 12, 69-81.	3.6	6
13	Significant improvement in data quality with simplified SCR-seq. <i>Acta Biochimica Et Biophysica Sinica</i> , 2020, 52, 457-459.	2.0	5
14	Ultrasensitive liposome-based assay for the quantification of fundamental ion channel properties. <i>Analytica Chimica Acta</i> , 2020, 1112, 8-15.	5.4	7
15	CHROMATIX: computing the functional landscape of many-body chromatin interactions in transcriptionally active loci from deconvolved single cells. <i>Genome Biology</i> , 2020, 21, 13.	8.8	22
16	Massive reorganization of the genome during primary monocyte differentiation into macrophage. <i>Acta Biochimica Et Biophysica Sinica</i> , 2020, 52, 546-553.	2.0	4
17	Wdr47 Controls Neuronal Polarization through the Camsap Family Microtubule Minus-End-Binding Proteins. <i>Cell Reports</i> , 2020, 31, 107526.	6.4	21
18	Atomic force microscopy-based single-molecule force spectroscopy detects DNA base mismatches. <i>Nanoscale</i> , 2019, 11, 17206-17210.	5.6	13

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19	Selective translational usage of TSS and core promoters revealed by translome sequencing. BMC Genomics, 2019, 20, 282.	2.8	10
20	3D Segmentation of Mice Gland Based on Ensemble Learning. , 2019, , .		0
21	Sub-kb Hi-C in <i>D. melanogaster</i> reveals conserved characteristics of TADs between insect and mammalian cells. Nature Communications, 2018, 9, 188.	12.8	126
22	Super-resolution Imaging of Individual Human Subchromosomal Regions <i>in Situ</i> Reveals Nanoscopic Building Blocks of Higher-Order Structure. ACS Nano, 2018, 12, 4909-4918.	14.6	41
23	abLIM1 constructs non-erythroid cortical actin networks to prevent mechanical tension-induced blebbing. Cell Discovery, 2018, 4, 42.	6.7	10
24	Compressive Force Spectroscopy: From Living Cells to Single Proteins. International Journal of Molecular Sciences, 2018, 19, 960.	4.1	5
25	Characterization of DNA Methylation Associated Gene Regulatory Networks During Stomach Cancer Progression. Frontiers in Genetics, 2018, 9, 711.	2.3	8
26	Improved clearing of lipid droplet-rich tissues for three-dimensional structural elucidation. Acta Biochimica Et Biophysica Sinica, 2017, 49, 465-467.	2.0	9
27	Enforced Tubular Assembly of Electronically Different Hexakis( <i>m</i> -Phenylene Ethynylene) Macrocycles: Persistent Columnar Stacking Driven by Multiple Hydrogen-Bonding Interactions. Journal of the American Chemical Society, 2017, 139, 15950-15957.	13.7	39
28	Toward the development of magnetic tweezers for high-throughput measurement of protein-protein interactions. Acta Biochimica Et Biophysica Sinica, 2017, 49, 468-470.	2.0	0
29	Chitosan-based core-shell nanomaterials for pH-triggered release of anticancer drug and near-infrared bioimaging. Carbohydrate Polymers, 2017, 157, 325-334.	10.2	58
30	Identification of Biomarkers for Predicting Lymph Node Metastasis of Stomach Cancer Using Clinical DNA Methylation Data. Disease Markers, 2017, 2017, 1-7.	1.3	31
31	MALAT1 long ncRNA promotes gastric cancer metastasis by suppressing <i>PCDH10</i> . Oncotarget, 2016, 7, 12693-12703.	1.8	97
32	Ultra-deep sequencing of ribosome-associated poly-adenylated RNA in early <i>Drosophila</i> embryos reveals hundreds of conserved translated sORFs. DNA Research, 2016, 23, 571-580.	3.4	14
33	Epigenetic Profiling of H3K4Me3 Reveals Herbal Medicine Jinfukang-Induced Epigenetic Alteration Is Involved in Anti-Lung Cancer Activity. Evidence-based Complementary and Alternative Medicine, 2016, 1-13.	1.2	16
34	Single molecule atomic force microscopy of aerolysin pore complexes reveals unexpected star-shaped topography. Journal of Molecular Recognition, 2016, 29, 174-181.	2.1	7
35	Complex clonal mosaicism within microdissected intestinal metaplastic glands without concurrent gastric cancer. Journal of Medical Genetics, 2016, 53, 643-646.	3.2	6
36	Synthesis and micellization of redox-responsive dynamic covalent multi-block copolymers. Polymer Chemistry, 2016, 7, 3145-3155.	3.9	16

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37	Activation of AIFM2 enhances apoptosis of human lung cancer cells undergoing toxicological stress. <i>Toxicology Letters</i> , 2016, 258, 227-236.	0.8	34
38	Nanosopic characterization of the water vapor-salt interfacial layer reveals a unique biphasic adsorption process. <i>Scientific Reports</i> , 2016, 6, 31688.	3.3	3
39	Integrative epigenomic analysis reveals unique epigenetic signatures involved in unipotency of mouse female germline stem cells. <i>Genome Biology</i> , 2016, 17, 162.	8.8	61
40	Development of a low-noise cryogenic atomic force microscope for high resolution imaging of large biological complexes. <i>Acta Biochimica Et Biophysica Sinica</i> , 2016, 48, 859-861.	2.0	1
41	Reductive triblock copolymer micelles with a dynamic covalent linkage deliver anti-miR-21 for gastric cancer therapy. <i>Polymer Chemistry</i> , 2016, 7, 4352-4366.	3.9	9
42	The non-coding RNA composition of the mitotic chromosome by 5â€²-tag sequencing. <i>Nucleic Acids Research</i> , 2016, 44, 4934-4946.	14.5	16
43	Persistent Organic Nanopores Amenable to Structural and Functional Tuning. <i>Journal of the American Chemical Society</i> , 2016, 138, 2749-2754.	13.7	77
44	Large scale gene regulatory network inference with a multi-level strategy. <i>Molecular BioSystems</i> , 2016, 12, 588-597.	2.9	26
45	Identification of Serum Biomarkers for Gastric Cancer Diagnosis Using a Human Proteome Microarray. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 614-623.	3.8	82
46	<i>Helicobacter pylori</i> CagA induces tumor suppressor gene hypermethylation by upregulating DNMT1 via AKT-NFÎB pathway in gastric cancer development. <i>Oncotarget</i> , 2016, 7, 9788-9800.	1.8	53
47	Fast immuno-labeling by electrophoretically driven infiltration for intact tissue imaging. <i>Scientific Reports</i> , 2015, 5, 10640.	3.3	40
48	Genome-wide profiling of polyadenylation sites reveals a link between selective polyadenylation and cancer metastasis. <i>Human Molecular Genetics</i> , 2015, 24, 3410-3417.	2.9	41
49	Redox-responsive micelles self-assembled from dynamic covalent block copolymers for intracellular drug delivery. <i>Acta Biomaterialia</i> , 2015, 17, 193-200.	8.3	74
50	Spatially defined microsatellite analysis reveals extensive genetic mosaicism and clonal complexity in intestinal metaplastic glands. <i>International Journal of Cancer</i> , 2015, 136, 2973-2979.	5.1	2
51	Developing the IVIG biomimetic, Hexa-Fc, for drug and vaccine applications. <i>Scientific Reports</i> , 2015, 5, 9526.	3.3	33
52	Chitosan oligosaccharide copolymer micelles with double disulphide linkage in the backbone associated by H-bonding duplexes for targeted intracellular drug delivery. <i>Polymer Chemistry</i> , 2015, 6, 1454-1464.	3.9	28
53	Illuminated up close: near-field optical microscopy of cell surfaces. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 119-125.	3.3	4
54	Single molecule compression reveals intra-protein forces drive cytotoxin pore formation. <i>ELife</i> , 2015, 4, e08421.	6.0	16

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55	Enhancing the effectiveness of fungicides by optimizing their combinations. , 2014, , .		0
56	Anomalous Surface Fatigue in a Nano-layered Material. <i>Advanced Materials</i> , 2014, 26, 6478-6482.	21.0	3
57	Mercury arc lamp based super-resolution imaging with conventional fluorescence microscopes. <i>Micron</i> , 2014, 59, 24-27.	2.2	4
58	Self-Assembling Organic Nanotubes with Precisely Defined, Sub-nanometer Pores: Formation and Mass Transport Characteristics. <i>Accounts of Chemical Research</i> , 2013, 46, 2856-2866.	15.6	186
59	Self-assembling subnanometer pores with unusual mass-transport properties. <i>Nature Communications</i> , 2012, 3, 949.	12.8	174
60	The human IgM pentamer is a mushroom-shaped molecule with a flexural bias. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14960-14965.	7.1	172
61	Highly Conducting Transmembrane Pores Formed by Aromatic Oligoamide Macrocycles. <i>Journal of the American Chemical Society</i> , 2008, 130, 15784-15785.	13.7	145
62	Vertical collapse of a cytolysin prepore moves its transmembrane $\beta$ -hairpins to the membrane. <i>EMBO Journal</i> , 2004, 23, 3206-3215.	7.8	242
63	Characterization of AC mode scanning ion-conductance microscopy. <i>Ultramicroscopy</i> , 2001, 90, 13-19.	1.9	72
64	Near-field optical microscopy with a vibrating probe in aqueous solution. <i>Applied Physics Letters</i> , 2001, 78, 2076-2078.	3.3	23
65	Probing the structure of monomers and dimers of the bacterial virus phi29 hexamer RNA complex by chemical modification. <i>Rna</i> , 2000, 6, 1257-1266.	3.5	45
66	Optimum Window Size for Quantitating Trace Elements Using Linear Least Squares Fit With EELS. <i>Microscopy and Microanalysis</i> , 1999, 5, 938-939.	0.4	0
67	VacA from <i>Helicobacter pylori</i> : a hexameric chloride channel. <i>FEBS Letters</i> , 1999, 450, 101-104.	2.8	125
68	Images of oligomeric Kv $\beta$ 2, a modulatory subunit of potassium channels. <i>FEBS Letters</i> , 1999, 457, 107-111.	2.8	16
69	Calcium Quantitation with a Parallel Electron Energy Loss Spectroscopy/Cooled Charge-Coupled Device/200 keV System. <i>Microscopy and Microanalysis</i> , 1999, 5, 17-28.	0.4	4
70	Submolecular resolution of single macromolecules with atomic force microscopy. <i>FEBS Letters</i> , 1998, 430, 51-54.	2.8	82
71	Staphylococcal $\alpha$ -hemolysin can form hexamers in phospholipid bilayers 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 1998, 276, 325-330.	4.2	144
72	High resolution surface structure of <i>E. coli</i> GroES oligomer by atomic force microscopy. <i>FEBS Letters</i> , 1996, 381, 161-164.	2.8	81

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73	Biological atomic force microscopy: what is achieved and what is needed. <i>Advances in Physics</i> , 1996, 45, 1-86.	14.4	331
74	A piezotube scanner for atomic force microscopy in solution. <i>Review of Scientific Instruments</i> , 1996, 67, 2654-2655.	1.3	7
75	The Effects of Non-Uniform Specimen Thickness on Thickness Determination and Elemental Quantitation with Electron Energy Loss Spectroscopy (EELS). <i>Microscopy and Microanalysis</i> , 1996, 2, 87-97.	0.4	1
76	Semi-automatic atomic force microscope for imaging in solution. <i>Review of Scientific Instruments</i> , 1995, 66, 5527-5531.	1.3	3
77	Progress in high resolution atomic force microscopy in biology. <i>Quarterly Reviews of Biophysics</i> , 1995, 28, 195-251.	5.7	155
78	Structure and stability of pertussis toxin studied by in situ atomic force microscopy. <i>FEBS Letters</i> , 1994, 338, 89-92.	2.8	63
79	An optical detection low temperature atomic force microscope at ambient pressure for biological research. <i>Review of Scientific Instruments</i> , 1993, 64, 1483-1488.	1.3	48
80	On the optical properties of an electrostatic retarding field lens. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 406-411.	2.1	2
81	SCANNING TUNNELING MICROSCOPY USING IONIC CONDUCTION FOR IMAGING NON-CONDUCTIVE SPECIMENS. <i>Modern Physics Letters B</i> , 1992, 06, 9-13.	1.9	6
82	Atomic force microscopy of DNA molecules. <i>FEBS Letters</i> , 1992, 301, 173-176.	2.8	98
83	Molecular resolution imaging of polyglucose by scanning tunneling microscopy. <i>FEBS Letters</i> , 1991, 279, 295-299.	2.8	9
84	Axial resolution of confocal microscopes with parallel-beam detection. <i>Journal of Microscopy</i> , 1991, 164, 13-19.	1.8	8