Zhifeng Shao

List of Publications by Year
in descending order

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		159585	144013
84	3,529	30	57
papers	citations	h-index	g-index

85	85	85	4352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biological atomic force microscopy: what is achieved and what is needed. Advances in Physics, 1996, 45, 1-86.	14.4	331
2	Vertical collapse of a cytolysin prepore moves its transmembrane Î²-hairpins to the membrane. EMBO Journal, 2004, 23, 3206-3215.	7.8	242
3	Self-Assembling Organic Nanotubes with Precisely Defined, Sub-nanometer Pores: Formation and Mass Transport Characteristics. Accounts of Chemical Research, 2013, 46, 2856-2866.	15.6	186
4	Self-assembling subnanometer pores with unusual mass-transport properties. Nature Communications, 2012, 3, 949.	12.8	174
5	The human IgM pentamer is a mushroom-shaped molecule with a flexural bias. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14960-14965.	7.1	172
6	Progress in high resolution atomic force microscopy in biology. Quarterly Reviews of Biophysics, 1995, 28, 195-251.	5.7	155
7	Highly Conducting Transmembrane Pores Formed by Aromatic Oligoamide Macrocycles. Journal of the American Chemical Society, 2008, 130, 15784-15785.	13.7	145
8	Staphylococcal Î±-hemolysin can form hexamers in phospholipid bilayers 1 1Edited by W. Baumeister. Journal of Molecular Biology, 1998, 276, 325-330.	4.2	144
9	Sub-kb Hi-C in D. melanogaster reveals conserved characteristics of TADs between insect and mammalian cells. Nature Communications, 2018, 9, 188.	12.8	126
10	VacA fromHelicobacter pylori: a hexameric chloride channel. FEBS Letters, 1999, 450, 101-104.	2.8	125
11	Atomic force microscopy of DNA molecules. FEBS Letters, 1992, 301, 173-176.	2.8	98
12	MALAT1 long ncRNA promotes gastric cancer metastasis by suppressing PCDH10. Oncotarget, 2016, 7, 12693-12703.	1.8	97
13	Submolecular resolution of single macromolecules with atomic force microscopy. FEBS Letters, 1998, 430, 51-54.	2.8	82
14	Identification of Serum Biomarkers for Gastric Cancer Diagnosis Using a Human Proteome Microarray. Molecular and Cellular Proteomics, 2016, 15, 614-623.	3.8	82
15	High resolution surface structure ofE. coliGroES oligomer by atomic force microscopy. FEBS Letters, 1996, 381, 161-164.	2.8	81
16	Persistent Organic Nanopores Amenable to Structural and Functional Tuning. Journal of the American Chemical Society, 2016, 138, 2749-2754.	13.7	77
17	Redox-responsive micelles self-assembled from dynamic covalent block copolymers for intracellular drug delivery. Acta Biomaterialia, 2015, 17, 193-200.	8.3	74
18	Characterization of AC mode scanning ion-conductance microscopy. Ultramicroscopy, 2001, 90, 13-19.	1.9	72

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19	Structure and stability of pertussis toxin studied by in situ atomic force microscopy. FEBS Letters, 1994, 338, 89-92.	2.8	63
20	Integrative epigenomic analysis reveals unique epigenetic signatures involved in unipotency of mouse female germline stem cells. Genome Biology, 2016, 17, 162.	8.8	61
21	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
22	Helicobacter pylori CagA induces tumor suppressor gene hypermethylation by upregulating DNMT1 via AKT-NFÎºB pathway in gastric cancer development. Oncotarget, 2016, 7, 9788-9800.	1.8	53
23	An optical detection low temperature atomic force microscope at ambient pressure for biological research. Review of Scientific Instruments, 1993, 64, 1483-1488.	1.3	48
24	Probing the structure of monomers and dimers of the bacterial virus phi29 hexamer RNA complex by chemical modification. Rna, 2000, 6, 1257-1266.	3.5	45
25	Genome-wide profiling of polyadenylation sites reveals a link between selective polyadenylation and cancer metastasis. Human Molecular Genetics, 2015, 24, 3410-3417.	2.9	41
26	Super-resolution Imaging of Individual Human Subchromosomal Regions in Situ Reveals Nanoscopic Building Blocks of Higher-Order Structure. ACS Nano, 2018, 12, 4909-4918.	14.6	41
27	Fast immuno-labeling by electrophoretically driven infiltration for intact tissue imaging. Scientific Reports, 2015, 5, 10640.	3.3	40
28	Enforced Tubular Assembly of Electronically Different Hexakis(m-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
29	Activation of AIFM2 enhances apoptosis of human lung cancer cells undergoing toxicological stress. Toxicology Letters, 2016, 258, 227-236.	0.8	34
30	Developing the IVIG biomimetic, Hexa-Fc, for drug and vaccine applications. Scientific Reports, 2015, 5, 9526.	3.3	33
31	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
32	Threeâ€Ðimensional Quantitative Imaging of Native Microbiota Distribution in the Gut. Angewandte Chemie - International Edition, 2021, 60, 3055-3061.	13.8	31
33	Chitosan oligosaccharide copolymer micelles with double disulphide linkage in the backbone associated by H-bonding duplexes for targeted intracellular drug delivery. Polymer Chemistry, 2015, 6, 1454-1464.	3.9	28
34	Large scale gene regulatory network inference with a multi-level strategy. Molecular BioSystems, 2016, 12, 588-597.	2.9	26
35	Near-field optical microscopy with a vibrating probe in aqueous solution. Applied Physics Letters, 2001, 78, 2076-2078.	3.3	23
36	CHROMATIX: computing the functional landscape of many-body chromatin interactions in transcriptionally active loci from deconvolved single cells. Genome Biology, 2020, 21, 13.	8.8	22

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37	Wdr47 Controls Neuronal Polarization through the Camsap Family Microtubule Minus-End-Binding Proteins. Cell Reports, 2020, 31, 107526.	6.4	21
38	High-resolution single-cell 3D-models of chromatin ensembles during Drosophila embryogenesis. Nature Communications, 2021, 12, 205.	12.8	17
39	Images of oligomeric KvÎ²2, a modulatory subunit of potassium channels. FEBS Letters, 1999, 457, 107-111.	2.8	16
40	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, 2016, 1-13.	1.2	16
41	Synthesis and micellization of redox-responsive dynamic covalent multi-block copolymers. Polymer Chemistry, 2016, 7, 3145-3155.	3.9	16
42	The non-coding RNA composition of the mitotic chromosome by 5â€²-tag sequencing. Nucleic Acids Research, 2016, 44, 4934-4946.	14.5	16
43	Single molecule compression reveals intra-protein forces drive cytotoxin pore formation. ELife, 2015, 4, e08421.	6.0	16
44	Ultra-deep sequencing of ribosome-associated poly-adenylated RNA in earlyDrosophilaembryos reveals hundreds of conserved translated sORFs. DNA Research, 2016, 23, 571-580.	3.4	14
45	Atomic force microscopy-based single-molecule force spectroscopy detects DNA base mismatches. Nanoscale, 2019, 11, 17206-17210.	5.6	13
46	Ratiometric Raman nanotags enable intraoperative detection of metastatic sentinel lymph node. Biomaterials, 2021, 276, 121070.	11.4	12
47	abLIM1 constructs non-erythroid cortical actin networks to prevent mechanical tension-induced blebbing. Cell Discovery, 2018, 4, 42.	6.7	10
48	Selective translational usage of TSS and core promoters revealed by translatome sequencing. BMC Genomics, 2019, 20, 282.	2.8	10
49	Nanomechanical Induction of Autophagyâ€Related Fluorescence in Single Cells with Atomic Force Microscopy. Advanced Science, 2021, 8, e2102989.	11.2	10
50	Molecular resolution imaging of polyglucose by scanning tunneling microscopy. FEBS Letters, 1991, 279, 295-299.	2.8	9
51	Reductive triblock copolymer micelles with a dynamic covalent linkage deliver antimiR-21 for gastric cancer therapy. Polymer Chemistry, 2016, 7, 4352-4366.	3.9	9
52	Improved clearing of lipid droplet-rich tissues for three-dimensional structural elucidation. Acta Biochimica Et Biophysica Sinica, 2017, 49, 465-467.	2.0	9
53	Axial resolution of confocal microscopes with parallelâ€beam detection. Journal of Microscopy, 1991, 164, 13-19.	1.8	8
54	Characterization of DNA Methylation Associated Gene Regulatory Networks During Stomach Cancer Progression. Frontiers in Genetics, 2018, 9, 711.	2.3	8

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55	Monocytic THP-1 cells diverge significantly from their primary counterparts: a comparative examination of the chromosomal conformations and transcriptomes. Hereditas, 2021, 158, 43.	1.4	8
56	Controlling Water Flow through a Synthetic Nanopore with Permeable Cations. ACS Central Science, 2021, 7, 2092-2098.	11.3	8
57	A piezotube scanner for atomic force microscopy in solution. Review of Scientific Instruments, 1996, 67, 2654-2655.	1.3	7
58	Single molecule atomic force microscopy of aerolysin pore complexes reveals unexpected starâ€shaped topography. Journal of Molecular Recognition, 2016, 29, 174-181.	2.1	7
59	Ultrasensitive liposome-based assay for the quantification of fundamental ion channel properties. Analytica Chimica Acta, 2020, 1112, 8-15.	5.4	7
60	Single-Molecule Micromanipulation and Super-Resolution Imaging Resolve Nanodomains Underlying Chromatin Folding in Mitotic Chromosomes. ACS Nano, 2022, 16, 8030-8039.	14.6	7
61	SCANNING TUNNELING MICROSCOPY USING IONIC CONDUCTION FOR IMAGING NON-CONDUCTIVE SPECIMENS. Modern Physics Letters B, 1992, 06, 9-13.	1.9	6
62	Complex clonal mosaicism within microdissected intestinal metaplastic glands without concurrent gastric cancer. Journal of Medical Genetics, 2016, 53, 643-646.	3.2	6
63	Evidence for heightened genetic instability in precancerous spasmolytic polypeptide expressing gastric glands. Journal of Medical Genetics, 2020, 57, 385-388.	3.2	6
64	Q-Nuc: a bioinformatics pipeline for the quantitative analysis of nucleosomal profiles. Interdisciplinary Sciences, Computational Life Sciences, 2020, 12, 69-81.	3.6	6
65	Compressive Force Spectroscopy: From Living Cells to Single Proteins. International Journal of Molecular Sciences, 2018, 19, 960.	4.1	5
66	Significant improvement in data quality with simplified SCRB-seq. Acta Biochimica Et Biophysica Sinica, 2020, 52, 457-459.	2.0	5
67	Calcium Quantitation with a Parallel Electron Energy Loss Spectroscopy/Cooled Charge-Coupled Device/200 keV System. Microscopy and Microanalysis, 1999, 5, 17-28.	0.4	4
68	Mercury arc lamp based super-resolution imaging with conventional fluorescence microscopes. Micron, 2014, 59, 24-27.	2.2	4
69	Illuminated up close: near-field optical microscopy of cell surfaces. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 119-125.	3.3	4
70	Massive reorganization of the genome during primary monocyte differentiation into macrophage. Acta Biochimica Et Biophysica Sinica, 2020, 52, 546-553.	2.0	4
71	Epithelial Cells in 2D and 3D Cultures Exhibit Large Differences in Higher-order Genomic Interactions. Genomics, Proteomics and Bioinformatics, 2022, 20, 101-109.	6.9	4
72	Semiâ€automatic atomic force microscope for imaging in solution. Review of Scientific Instruments, 1995, 66, 5527-5531.	1.3	3

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73	Anomalous Surface Fatigue in a Nanoâ€Layered Material. Advanced Materials, 2014, 26, 6478-6482.	21.0	3
74	Nanoscopic characterization of the water vapor-salt interfacial layer reveals a unique biphasic adsorption process. Scientific Reports, 2016, 6, 31688.	3.3	3
75	Robust Acquisition of Spatial Transcriptional Programs in Tissues With Immunofluorescence-Guided Laser Capture Microdissection. Frontiers in Cell and Developmental Biology, 2022, 10, 853188.	3.7	3
76	On the optical properties of an electrostatic retarding field lens. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 406-411.	2.1	2
77	Spatially defined microsatellite analysis reveals extensive genetic mosaicism and clonal complexity in intestinal metaplastic glands. International Journal of Cancer, 2015, 136, 2973-2979.	5.1	2
78	The Effects of Non-Uniform Specimen Thickness on Thickness Determination and Elemental Quantitation with Electron Energy Loss Spectroscopy (EELS). Microscopy and Microanalysis, 1996, 2, 87-97.	0.4	1
79	Development of a low-noise cryogenic atomic force microscope for high resolution imaging of large biological complexes. Acta Biochimica Et Biophysica Sinica, 2016, 48, 859-861.	2.0	1
80	Threeâ€Dimensional Quantitative Imaging of Native Microbiota Distribution in the Gut. Angewandte Chemie, 2021, 133, 3092-3098.	2.0	1
81	Optimum Window Size for Quantitating Trace Elements Using Linear Least Squares Fit With Eels. Microscopy and Microanalysis, 1999, 5, 938-939.	0.4	0
82	Enhancing the effectiveness of fungicides by optimizing their combinations. , 2014, , .		0
83	Toward the development of magnetic tweezers for high-throughput measurement of proteinâ€“protein interactions. Acta Biochimica Et Biophysica Sinica, 2017, 49, 468-470.	2.0	0
84	3D Segmentation of Mice Gland Based on Ensemble Learning. , 2019, , .		0