

# Zhou Songyang

## List of Publications by Year in descending order

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107  
papers

7,080  
citations

76326

40  
h-index

60623

81  
g-index

110  
all docs

110  
docs citations

110  
times ranked

9905  
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR/Cas9-mediated gene editing in human tripronuclear zygotes. <i>Protein and Cell</i> , 2015, 6, 363-372.	11.0	929
2	TPP1 is a homologue of ciliate TEBP- $\hat{1}^2$ and interacts with POT1 to recruit telomerase. <i>Nature</i> , 2007, 445, 559-562.	27.8	436
3	Nanog and Oct4 associate with unique transcriptional repression complexes in embryonic stem cells. <i>Nature Cell Biology</i> , 2008, 10, 731-739.	10.3	406
4	PTOP interacts with POT1 and regulates its localization to telomeres. <i>Nature Cell Biology</i> , 2004, 6, 673-680.	10.3	389
5	Telosome, a Mammalian Telomere-associated Complex Formed by Multiple Telomeric Proteins. <i>Journal of Biological Chemistry</i> , 2004, 279, 51338-51342.	3.4	336
6	TERRA and hnRNPA1 orchestrate an RPA-to-POT1 switch on telomeric single-stranded DNA. <i>Nature</i> , 2011, 471, 532-536.	27.8	300
7	A critical role for TPP1 and TIN2 interaction in high-order telomeric complex assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11874-11879.	7.1	216
8	Gain-of-Function Mutant p53 Promotes Cell Growth and Cancer Cell Metabolism via Inhibition of AMPK Activation. <i>Molecular Cell</i> , 2014, 54, 960-974.	9.7	196
9	Correction of $\hat{1}^2$ -thalassemia mutant by base editor in human embryos. <i>Protein and Cell</i> , 2017, 8, 811-822.	11.0	182
10	Telomeresâ€™ structure, function, and regulation. <i>Experimental Cell Research</i> , 2013, 319, 133-141.	2.6	179
11	The telosome/shelterin complex and its functions. <i>Genome Biology</i> , 2008, 9, 232.	9.6	170
12	The Human Rap1 Protein Complex and Modulation of Telomere Length. <i>Journal of Biological Chemistry</i> , 2004, 279, 28585-28591.	3.4	154
13	Ten-Eleven Translocation 1 (Tet1) Is Regulated by O-Linked N-Acetylglucosamine Transferase (Ogt) for Target Gene Repression in Mouse Embryonic Stem Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 20776-20784.	3.4	125
14	OB Fold-containing Protein 1 (OBFC1), a Human Homolog of Yeast Stn1, Associates with TPP1 and Is Implicated in Telomere Length Regulation. <i>Journal of Biological Chemistry</i> , 2009, 284, 26725-26731.	3.4	123
15	TRF2 functions as a protein hub and regulates telomere maintenance by recognizing specific peptide motifs. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 372-379.	8.2	118
16	The Daxx/Atrx Complex Protects Tandem Repetitive Elements during DNA Hypomethylation by Promoting H3K9 Trimethylation. <i>Cell Stem Cell</i> , 2015, 17, 273-286.	11.1	118
17	Regulation of cytokine-independent survival kinase (CISK) by the Phox homology domain and phosphoinositides. <i>Journal of Cell Biology</i> , 2001, 154, 699-706.	5.2	111
18	Poly-ADP ribosylation of PTEN by tankyrases promotes PTEN degradation and tumor growth. <i>Genes and Development</i> , 2015, 29, 157-170.	5.9	103

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19	Genome-wide profiling of adenine base editor specificity by EndoV-seq. <i>Nature Communications</i> , 2019, 10, 67.	12.8	103
20	Human Urine-Derived Stem Cells Alone or Genetically-Modified with FGF2 Improve Type 2 Diabetic Erectile Dysfunction in a Rat Model. <i>PLoS ONE</i> , 2014, 9, e92825.	2.5	102
21	Whole-genome screening identifies proteins localized to distinct nuclear bodies. <i>Journal of Cell Biology</i> , 2013, 203, 149-164.	5.2	100
22	Telomere Maintenance through Spatial Control of Telomeric Proteins. <i>Molecular and Cellular Biology</i> , 2007, 27, 5898-5909.	2.3	96
23	Genome-wide YFP Fluorescence Complementation Screen Identifies New Regulators for Telomere Signaling in Human Cells. <i>Molecular and Cellular Proteomics</i> , 2011, 10, S1-S11.	3.8	96
24	An Oriented Peptide Array Library (OPAL) Strategy to Study Protein-Protein Interactions. <i>Journal of Biological Chemistry</i> , 2004, 279, 8802-8807.	3.4	84
25	Mitochondrial Localization of Telomeric Protein TIN2 Links Telomere Regulation to Metabolic Control. <i>Molecular Cell</i> , 2012, 47, 839-850.	9.7	84
26	Effective gene editing by high-fidelity base editor 2 in mouse zygotes. <i>Protein and Cell</i> , 2017, 8, 601-611.	11.0	72
27	Cationic Polymer-Mediated CRISPR/Cas9 Plasmid Delivery for Genome Editing. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800068.	3.9	72
28	Oncogenic Kinase-Induced PKM2 Tyrosine 105 Phosphorylation Converts Nononcogenic PKM2 to a Tumor Promoter and Induces Cancer Stem-like Cells. <i>Cancer Research</i> , 2018, 78, 2248-2261.	0.9	66
29	Phosphorylation of TPP1 regulates cell cycle-dependent telomerase recruitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5457-5462.	7.1	61
30	Switch telomerase to ALT mechanism by inducing telomeric DNA damages and dysfunction of ATRX and DAXX. <i>Scientific Reports</i> , 2016, 6, 32280.	3.3	61
31	Pan-cancer analysis identifies telomerase-associated signatures and cancer subtypes. <i>Molecular Cancer</i> , 2019, 18, 106.	19.2	60
32	TIN2 Protein Dyskeratosis Congenita Missense Mutants Are Defective in Association with Telomerase. <i>Journal of Biological Chemistry</i> , 2011, 286, 23022-23030.	3.4	57
33	Telomere regulation in pluripotent stem cells. <i>Protein and Cell</i> , 2014, 5, 194-202.	11.0	56
34	The BUB3-BUB1 Complex Promotes Telomere DNA Replication. <i>Molecular Cell</i> , 2018, 70, 395-407.e4.	9.7	54
35	Mir-23a induces telomere dysfunction and cellular senescence by inhibiting TRF2 expression. <i>Aging Cell</i> , 2015, 14, 391-399.	6.7	49
36	Synergy between SIRT1 and SIRT6 helps recognize DNA breaks and potentiates the DNA damage response and repair in humans and mice. <i>ELife</i> , 2020, 9, .	6.0	49

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37	Genetic screens in mammalian cells by enhanced retroviral mutagens. <i>Oncogene</i> , 2000, 19, 5964-5972.	5.9	47
38	Role of the focal adhesion protein TRIM15 in colon cancer development. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 409-421.	4.1	46
39	Repurposing type I CRISPR-Cas system as a transcriptional activation tool in human cells. <i>Nature Communications</i> , 2020, 11, 3136.	12.8	45
40	Human cells lacking coilin and Cajal bodies are proficient in telomerase assembly, trafficking and telomere maintenance. <i>Nucleic Acids Research</i> , 2015, 43, 385-395.	14.5	44
41	Cold-inducible RNA-binding protein CIRP/hnRNP A18 regulates telomerase activity in a temperature-dependent manner. <i>Nucleic Acids Research</i> , 2016, 44, 761-775.	14.5	44
42	Systematic analysis of human telomeric dysfunction using inducible telosome/shelterin CRISPR/Cas9 knockout cells. <i>Cell Discovery</i> , 2017, 3, 17034.	6.7	43
43	Human RAP1 specifically protects telomeres of senescent cells from DNA damage. <i>EMBO Reports</i> , 2020, 21, e49076.	4.5	43
44	Inside the Mammalian Telomere Interactome: Regulation and Regulatory Activities of Telomeres. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2006, 16, 103-118.	0.9	43
45	Live cell imaging and proteomic profiling of endogenous NEAT1 lncRNA by CRISPR/Cas9-mediated knock-in. <i>Protein and Cell</i> , 2020, 11, 641-660.	11.0	40
46	BRCT Domains: phosphopeptide binding and signaling modules. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 5905.	3.0	39
47	TOE1 acts as a 3' exonuclease for telomerase RNA and regulates telomere maintenance. <i>Nucleic Acids Research</i> , 2019, 47, 391-405.	14.5	38
48	Actl6a Protects Embryonic Stem Cells From Differentiating Into Primitive Endoderm. <i>Stem Cells</i> , 2015, 33, 1782-1793.	3.2	35
49	The telomere-associated homeobox-containing protein TAH1 participates in telomere maintenance in ALT Cells. <i>Journal of Cell Science</i> , 2013, 126, 3982-9.	2.0	29
50	HuR regulates telomerase activity through TERC methylation. <i>Nature Communications</i> , 2018, 9, 2213.	12.8	29
51	Single-walled carbon nanotube: One specific inhibitor of cancer stem cells in osteosarcoma upon downregulation of the TGF $\beta$ 1 signaling. <i>Biomaterials</i> , 2017, 149, 29-40.	11.4	28
52	Akt regulates TPP1 homodimerization and telomere protection. <i>Aging Cell</i> , 2013, 12, 1091-1099.	6.7	27
53	Efficient Production of Gene-Modified Mice using <i>Staphylococcus aureus</i> Cas9. <i>Scientific Reports</i> , 2016, 6, 32565.	3.3	27
54	Glycerol kinase-like proteins cooperate with Pld6 in regulating sperm mitochondrial sheath formation and male fertility. <i>Cell Discovery</i> , 2017, 3, 17030.	6.7	27

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55	Disease mutant analysis identifies a novel function of DAXX in telomerase regulation and telomere maintenance. <i>Journal of Cell Science</i> , 2015, 128, 331-41.	2.0	26
56	Questions about NgAgo. <i>Protein and Cell</i> , 2016, 7, 913-915.	11.0	24
57	Effective and precise adenine base editing in mouse zygotes. <i>Protein and Cell</i> , 2018, 9, 808-813.	11.0	24
58	Identification of Flightless-I as a Substrate of the Cytokine-independent Survival Kinase CISK. <i>Journal of Biological Chemistry</i> , 2009, 284, 14377-14385.	3.4	21
59	Looping mechanism for resolution of replicative stress at telomeres. <i>EMBO Reports</i> , 2017, 18, 1412-1428.	4.5	21
60	Selective autophagy controls the stability of TBK1 via NEDD4 to balance host defense. <i>Cell Death and Differentiation</i> , 2022, 29, 40-53.	11.2	21
61	Nuclear receptors regulate alternative lengthening of telomeres through a novel noncanonical FANCD2 pathway. <i>Science Advances</i> , 2019, 5, eaax6366.	10.3	20
62	ZIP codes for delivering SH2 domains. <i>Cell</i> , 2004, 116, S41-S43.	28.9	19
63	The long non-coding RNA Shhg3 is essential for mouse embryonic stem cell self-renewal and pluripotency. <i>Stem Cell Research and Therapy</i> , 2019, 10, 157.	5.5	19
64	Fam118B, a novel component in Cajal bodies, is required for Cajal body formation, snRNP biogenesis and cell viability. <i>Journal of Cell Science</i> , 2014, 127, 2029-39.	2.0	18
65	Shwachman-Diamond Syndrome Protein SBDS Maintains Human Telomeres by Regulating Telomerase Recruitment. <i>Cell Reports</i> , 2018, 22, 1849-1860.	6.4	17
66	Homozygous OB-fold variants in telomere protein TPP1 are associated with dyskeratosis congenita-like phenotypes. <i>Blood</i> , 2018, 132, 1349-1353.	1.4	16
67	CCSI: a database providing chromatin chromatin spatial interaction information. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, bav124.	3.0	14
68	Phosphorylation of PLIN3 by AMPK promotes dispersion of lipid droplets during starvation. <i>Protein and Cell</i> , 2019, 10, 382-387.	11.0	14
69	Single AAV-Mediated CRISPR-SaCas9 Inhibits HSV-1 Replication by Editing ICP4 in Trigeminal Ganglion Neurons. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 33-43.	4.1	14
70	MiR-185 targets POT1 to induce telomere dysfunction and cellular senescence. <i>Aging</i> , 2020, 12, 14791-14807.	3.1	14
71	Structural Maintenance of Chromosomes Flexible Hinge Domain Containing 1 (SMCHD1) Promotes Non-homologous End Joining and Inhibits Homologous Recombination Repair upon DNA Damage. <i>Journal of Biological Chemistry</i> , 2014, 289, 34024-34032.	3.4	12
72	The role of telomere-binding modulators in pluripotent stem cells. <i>Protein and Cell</i> , 2020, 11, 60-70.	11.0	11

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73	TeloPIN: a database of telomeric proteins interaction network in mammalian cells. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav018-bav018.	3.0	10
74	Rho GTPase dissociation inhibitor 1 is a potential prognostic biomarker and controls telomere regulation in colorectal cancer. Cancer Science, 2017, 108, 1293-1302.	3.9	10
75	CRISPR/Cas9 Promotes Functional Study of Testis Specific X-Linked Gene In Vivo. PLoS ONE, 2015, 10, e0143148.	2.5	10
76	Effective production of recipient male pigs for spermatogonial stem cell transplantation by intratesticular injection with busulfan. Theriogenology, 2017, 89, 365-373.e2.	2.1	9
77	TRIM28 inhibits alternative lengthening of telomere phenotypes by protecting SETDB1 from degradation. Cell and Bioscience, 2021, 11, 149.	4.8	8
78	GOLPH3 Promotes Cancer Growth by Interacting With STIP1 and Regulating Telomerase Activity in Pancreatic Ductal Adenocarcinoma. Frontiers in Oncology, 2020, 10, 575358.	2.8	7
79	Specific Tandem 3'UTR Patterns and Gene Expression Profiles in Mouse Thy1+ Germline Stem Cells. PLoS ONE, 2015, 10, e0145417.	2.5	7
80	REIA: A database for cancer A-to-I RNA editing with interactive analysis. International Journal of Biological Sciences, 2022, 18, 2472-2483.	6.4	7
81	Natural Product Library Screens Identify Sanguinarine Chloride as a Potent Inhibitor of Telomerase Expression and Activity. Cells, 2022, 11, 1485.	4.1	7
82	Ccndbp1 is a novel positive regulator of skeletal myogenesis. Journal of Cell Science, 2016, 129, 2767-77.	2.0	6
83	SmedOB1 is Required for Planarian Homeostasis and Regeneration. Scientific Reports, 2016, 6, 34013.	3.3	6
84	mTORC1-Rps15 Axis Contributes to the Mechanisms Underlying Global Translation Reduction During Senescence of Mouse Embryonic Fibroblasts. Frontiers in Cell and Developmental Biology, 2019, 7, 337.	3.7	6
85	Bend family proteins mark chromatin boundaries and synergistically promote early germ cell differentiation. Protein and Cell, 2022, 13, 721-741.	11.0	6
86	An inducible CRISPR/Cas9 screen identifies DTX2 as a transcriptional regulator of human telomerase. IScience, 2022, 25, 103813.	4.1	6
87	pgRNAFinder: a web-based tool to design distance independent paired-gRNA. Bioinformatics, 2017, 33, 3642-3644.	4.1	5
88	Expert consensus-based laboratory testing of SARS-CoV-2. Journal of Thoracic Disease, 2020, 12, 4378-4390.	1.4	5
89	Introduction to Telomeres and Telomerase. Methods in Molecular Biology, 2011, 735, 1-11.	0.9	5
90	Studying of Telomeric Protein-Protein Interactions by Bi-Molecular Fluorescence Complementation (BiFC) and Peptide Array-Based Assays. Methods in Molecular Biology, 2011, 735, 161-171.	0.9	5

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91	Zebrafish as a Model System to Study the Physiological Function of Telomeric Protein TPP1. PLoS ONE, 2011, 6, e16440.	2.5	5
92	A critical role of telomere chromatin compaction in ALT tumor cell growth. Nucleic Acids Research, 2020, 48, 6019-6031.	14.5	4
93	<scp>FPIA</scp>: A database for gene fusion profiling and interactive analyses. International Journal of Cancer, 2022, 150, 1504-1511.	5.1	4
94	Field cancerization profile-based prognosis signatures lead to more robust risk evaluation in hepatocellular carcinoma. IScience, 2022, 25, 103747.	4.1	4
95	Analysis of hpf1 expression and function in early embryonic development of zebrafish. Development Genes and Evolution, 2018, 228, 141-147.	0.9	3
96	Cost-effective generation of A-to-G mutant mice by zygote electroporation of adenine base editor ribonucleoproteins. Journal of Genetics and Genomics, 2020, 47, 337-340.	3.9	3
97	Comprehensive Analysis of Large-Scale Transcriptomes from Multiple Cancer Types. Genes, 2021, 12, 1865.	2.4	3
98	TIN2 deficiency leads to ALT-associated phenotypes and differentiation defects in embryonic stem cells. Stem Cell Reports, 2022, 17, 1183-1197.	4.8	3
99	A tribute to Professor Yong Zhao. Protein and Cell, 2021, , 1.	11.0	2
100	TPP1 as a versatile player at the ends of chromosomes. Frontiers in Biology, 2014, 9, 225-233.	0.7	1
101	Introduction to Telomeres and Telomerase. Methods in Molecular Biology, 2017, 1587, 1-13.	0.9	1
102	Testis-specific <i>Lypd9</i> is dispensable for spermatogenesis in mouse. Molecular Reproduction and Development, 2018, 85, 87-89.	2.0	1
103	Global molecular features in transcription and chromatin accessibility in human extended pluripotent stem cells. Biochemical and Biophysical Research Communications, 2021, 574, 63-69.	2.1	1
104	TAD reorganization: a new mechanism for cell fate determination. Cell Regeneration, 2021, 10, 37.	2.6	1
105	Genetic Mapping of Cell Survival Pathways using Enhanced Retroviral Mutagens. Scientific World Journal, The, 2001, 1, 95-95.	2.1	0
106	Using Protein-Fragment Complementation Assays (PCA) and Peptide Arrays to Study Telomeric Protein-Protein Interactions. Methods in Molecular Biology, 2017, 1587, 147-160.	0.9	0
107	Analysis of Average Telomere Length in Human Telomeric Protein Knockout Cells Generated by CRISPR/Cas9. Methods in Molecular Biology, 2017, 1587, 15-28.	0.9	0