

# Yu Zhou

## List of Publications by Year in descending order

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114  
papers

9,508  
citations

50170

46  
h-index

43802

91  
g-index

123  
all docs

123  
docs citations

123  
times ranked

16929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptomic characteristics of bronchoalveolar lavage fluid and peripheral blood mononuclear cells in COVID-19 patients. <i>Emerging Microbes and Infections</i> , 2020, 9, 761-770.	3.0	994
2	Direct Conversion of Fibroblasts to Neurons by Reprogramming PTB-Regulated MicroRNA Circuits. <i>Cell</i> , 2013, 152, 82-96.	13.5	508
3	Genome-wide Analysis of PTB-RNA Interactions Reveals a Strategy Used by the General Splicing Repressor to Modulate Exon Inclusion or Skipping. <i>Molecular Cell</i> , 2009, 36, 996-1006.	4.5	429
4	MicroRNA Directly Enhances Mitochondrial Translation during Muscle Differentiation. <i>Cell</i> , 2014, 158, 607-619.	13.5	385
5	Pachytene piRNAs instruct massive mRNA elimination during late spermiogenesis. <i>Cell Research</i> , 2014, 24, 680-700.	5.7	344
6	SR Proteins Collaborate with 7SK and Promoter-Associated Nascent RNA to Release Paused Polymerase. <i>Cell</i> , 2013, 153, 855-868.	13.5	279
7	R-ChIP Using Inactive RNase H Reveals Dynamic Coupling of R-loops with Transcriptional Pausing at Gene Promoters. <i>Molecular Cell</i> , 2017, 68, 745-757.e5.	4.5	263
8	Genome-wide Analysis Reveals SR Protein Cooperation and Competition in Regulated Splicing. <i>Molecular Cell</i> , 2013, 50, 223-235.	4.5	261
9	Pre-mRNA splicing is facilitated by an optimal RNA polymerase II elongation rate. <i>Genes and Development</i> , 2014, 28, 2663-2676.	2.7	250
10	Pancreatic cancer-targeting exosomes for enhancing immunotherapy and reprogramming tumor microenvironment. <i>Biomaterials</i> , 2021, 268, 120546.	5.7	237
11	Pervasive Chromatin-RNA Binding Protein Interactions Enable RNA-Based Regulation of Transcription. <i>Cell</i> , 2019, 178, 107-121.e18.	13.5	224
12	The Akt-SRPK-SR Axis Constitutes a Major Pathway in Transducing EGF Signaling to Regulate Alternative Splicing in the Nucleus. <i>Molecular Cell</i> , 2012, 47, 422-433.	4.5	221
13	Enhanced Cardioprotection by Human Endometrium Mesenchymal Stem Cells Driven by Exosomal MicroRNA-21. <i>Stem Cells Translational Medicine</i> , 2017, 6, 209-222.	1.6	217
14	ALS-causative mutations in FUS/TLS confer gain and loss of function by altered association with SMN and U1-snRNP. <i>Nature Communications</i> , 2015, 6, 6171.	5.8	205
15	The Augmented R-Loop Is a Unifying Mechanism for Myelodysplastic Syndromes Induced by High-Risk Splicing Factor Mutations. <i>Molecular Cell</i> , 2018, 69, 412-425.e6.	4.5	203
16	Toxic gain of function from mutant <scp>FUS</scp> protein is crucial to trigger cell autonomous motor neuron loss. <i>EMBO Journal</i> , 2016, 35, 1077-1097.	3.5	187
17	Interactions between the NR2B Receptor and CaMKII Modulate Synaptic Plasticity and Spatial Learning. <i>Journal of Neuroscience</i> , 2007, 27, 13843-13853.	1.7	169
18	NEAT1 scaffolds RNA-binding proteins and the Microprocessor to globally enhance pri-miRNA processing. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 816-824.	3.6	165

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19	Impact of Single-chain Fv Antibody Fragment Affinity on Nanoparticle Targeting of Epidermal Growth Factor Receptor-expressing Tumor Cells. <i>Journal of Molecular Biology</i> , 2007, 371, 934-947.	2.0	164
20	Coinfection with influenza A virus enhances SARS-CoV-2 infectivity. <i>Cell Research</i> , 2021, 31, 395-403.	5.7	164
21	Mechanisms for U2AF to define 3' splice sites and regulate alternative splicing in the human genome. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 997-1005.	3.6	150
22	Nuclear Matrix Factor hnRNP U/SAF-A Exerts a Global Control of Alternative Splicing by Regulating U2 snRNP Maturation. <i>Molecular Cell</i> , 2012, 45, 656-668.	4.5	146
23	Molecular basis for 5-carboxycytosine recognition by RNA polymerase II elongation complex. <i>Nature</i> , 2015, 523, 621-625.	13.7	141
24	A Translation-Activating Function of MIWI/piRNA during Mouse Spermiogenesis. <i>Cell</i> , 2019, 179, 1566-1581.e16.	13.5	136
25	A novel class of microRNA-recognition elements that function only within open reading frames. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 1019-1027.	3.6	134
26	RBFox1-mediated RNA splicing regulates cardiac hypertrophy and heart failure. <i>Journal of Clinical Investigation</i> , 2015, 126, 195-206.	3.9	114
27	Both Decreased and Increased SRPK1 Levels Promote Cancer by Interfering with PHLPP-Mediated Dephosphorylation of Akt. <i>Molecular Cell</i> , 2014, 54, 378-391.	4.5	105
28	Pooled CRISPR screening identifies mTORC1 as a positive regulator of macrophage activation. <i>Science Advances</i> , 2021, 7, .	4.7	102
29	SRSF2 Is Essential for Hematopoiesis, and Its Myelodysplastic Syndrome-Related Mutations Dysregulate Alternative Pre-mRNA Splicing. <i>Molecular and Cellular Biology</i> , 2015, 35, 3071-3082.	1.1	92
30	TDP-43 aggregation induced by oxidative stress causes global mitochondrial imbalance in ALS. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 132-142.	3.6	92
31	Sequential regulatory loops as key gatekeepers for neuronal reprogramming in human cells. <i>Nature Neuroscience</i> , 2016, 19, 807-815.	7.1	88
32	GISSD: Group I Intron Sequence and Structure Database. <i>Nucleic Acids Research</i> , 2008, 36, D31-D37.	6.5	78
33	Bone marrow mesenchymal stem cells-derived exosomes for penetrating and targeted chemotherapy of pancreatic cancer. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 1563-1575.	5.7	78
34	Repression of the Central Splicing Regulator RBFox2 Is Functionally Linked to Pressure Overload-Induced Heart Failure. <i>Cell Reports</i> , 2015, 10, 1521-1533.	2.9	74
35	The SARS-CoV-2 subgenome landscape and its novel regulatory features. <i>Molecular Cell</i> , 2021, 81, 2135-2147.e5.	4.5	72
36	Multi-strategic RNA-seq analysis reveals a high-resolution transcriptional landscape in cotton. <i>Nature Communications</i> , 2019, 10, 4714.	5.8	70

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37	A missense variant in FGD6 confers increased risk of polypoidal choroidal vasculopathy. <i>Nature Genetics</i> , 2016, 48, 640-647.	9.4	68
38	Caffeic acid ameliorates early and delayed brain injuries after focal cerebral ischemia in rats. <i>Acta Pharmacologica Sinica</i> , 2006, 27, 1103-1110.	2.8	66
39	RBFox2 Binds Nascent RNA to Globally Regulate Polycomb Complex 2 Targeting in Mammalian Genomes. <i>Molecular Cell</i> , 2016, 62, 875-889.	4.5	66
40	Versatile pathway-centric approach based on high-throughput sequencing to anticancer drug discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4609-4614.	3.3	63
41	A multiplex RNA-seq strategy to profile poly(A+) RNA: Application to analysis of transcription response and 3' end formation. <i>Genomics</i> , 2011, 98, 266-271.	1.3	61
42	Spatio-temporal properties of 5-lipoxygenase expression and activation in the brain after focal cerebral ischemia in rats. <i>Life Sciences</i> , 2006, 79, 1645-1656.	2.0	59
43	De Novo Prediction of PTBP1 Binding and Splicing Targets Reveals Unexpected Features of Its RNA Recognition and Function. <i>PLoS Computational Biology</i> , 2014, 10, e1003442.	1.5	56
44	Impact of Intrinsic Affinity on Functional Binding and Biological Activity of EGFR Antibodies. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 1467-1476.	1.9	54
45	Cyclin E in normal physiology and disease states. <i>Trends in Cell Biology</i> , 2021, 31, 732-746.	3.6	54
46	Internalizing Cancer Antibodies from Phage Libraries Selected on Tumor Cells and Yeast-Displayed Tumor Antigens. <i>Journal of Molecular Biology</i> , 2010, 404, 88-99.	2.0	53
47	Adding pyrrolysine to the <i>Escherichia coli</i> genetic code. <i>FEBS Letters</i> , 2007, 581, 5282-5288.	1.3	52
48	Wounding triggers MIRO-1 dependent mitochondrial fragmentation that accelerates epidermal wound closure through oxidative signaling. <i>Nature Communications</i> , 2020, 11, 1050.	5.8	44
49	Fluorogenic labeling and single-base resolution analysis of 5-formylcytosine in DNA. <i>Chemical Science</i> , 2017, 8, 7443-7447.	3.7	42
50	Distinct splicing signatures affect converged pathways in myelodysplastic syndrome patients carrying mutations in different splicing regulators. <i>Rna</i> , 2016, 22, 1535-1549.	1.6	40
51	JMJD6 and U2AF65 co-regulate alternative splicing in both JMJD6 enzymatic activity dependent and independent manner. <i>Nucleic Acids Research</i> , 2017, 45, 3503-3518.	6.5	40
52	Antitumour activity and tolerability of an EphA2-targeted nanotherapeutic in multiple mouse models. <i>Nature Biomedical Engineering</i> , 2019, 3, 264-280.	11.6	40
53	Transcriptional upregulation of MT2-MMP in response to hypoxia is promoted by HIF1 $\alpha$ in cancer cells. <i>Molecular Carcinogenesis</i> , 2011, 50, 770-780.	1.3	37
54	Oleylethanolamide inhibits glial activation via modulating PPAR $\gamma$ and promotes motor function recovery after brain ischemia. <i>Pharmacological Research</i> , 2019, 141, 530-540.	3.1	37

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55	Precision Engineering of an Anti-HLA-A2 Chimeric Antigen Receptor in Regulatory T Cells for Transplant Immune Tolerance. <i>Frontiers in Immunology</i> , 2021, 12, 686439.	2.2	37
56	PsORF: a database of small ORFs in plants. <i>Plant Biotechnology Journal</i> , 2020, 18, 2158-2160.	4.1	35
57	NRDE2 negatively regulates exosome functions by inhibiting MTR4 recruitment and exosome interaction. <i>Genes and Development</i> , 2019, 33, 536-549.	2.7	34
58	NEPdb: A Database of T-Cell Experimentally-Validated Neoantigens and Pan-Cancer Predicted Neopeptides for Cancer Immunotherapy. <i>Frontiers in Immunology</i> , 2021, 12, 644637.	2.2	34
59	RBFOX2-miR-34a-JPH2 axis contributes to cardiac decompensation during heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6172-6180.	3.3	32
60	Exosomes derived from immunogenically dying tumor cells as a versatile tool for vaccination against pancreatic cancer. <i>Biomaterials</i> , 2022, 280, 121306.	5.7	32
61	GRID-seq for comprehensive analysis of global RNA-chromatin interactions. <i>Nature Protocols</i> , 2019, 14, 2036-2068.	5.5	31
62	Type I Interferon Regulates a Coordinated Gene Network to Enhance Cytotoxic T Cell-Mediated Tumor Killing. <i>Cancer Discovery</i> , 2020, 10, 382-393.	7.7	31
63	<sc>ALYREF</sc> links 3' end processing to nuclear export of non-polyadenylated <sc>mRNA</sc> s. <i>EMBO Journal</i> , 2019, 38, .	3.5	30
64	Anti-MET ImmunoPET for Non-Small Cell Lung Cancer Using Novel Fully Human Antibody Fragments. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 2607-2617.	1.9	29
65	CELF RNA binding proteins promote axon regeneration in <i>C. elegans</i> and mammals through alternative splicing of Syntaxins. <i>ELife</i> , 2016, 5, .	2.8	27
66	Attractylenolide III reduces depressive- and anxiogenic-like behaviors in rat depression models. <i>Neuroscience Letters</i> , 2021, 759, 136050.	1.0	27
67	Alternative polyadenylation by sequential activation of distal and proximal PolyA sites. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 21-31.	3.6	27
68	The RNA binding protein EWS is broadly involved in the regulation of pri-miRNA processing in mammalian cells. <i>Nucleic Acids Research</i> , 2017, 45, 12481-12495.	6.5	26
69	The Paf1 complex transcriptionally regulates the mitochondrial-anchored protein Atg32 leading to activation of mitophagy. <i>Autophagy</i> , 2020, 16, 1366-1379.	4.3	26
70	SHQ1 regulation of RNA splicing is required for T-lymphoblastic leukemia cell survival. <i>Nature Communications</i> , 2018, 9, 4281.	5.8	24
71	MaGenDB: a functional genomics hub for Malvaceae plants. <i>Nucleic Acids Research</i> , 2020, 48, D1076-D1084.	6.5	23
72	<i>Moringa oleifera</i> seed extract protects against brain damage in both the acute and delayed stages of ischemic stroke. <i>Experimental Gerontology</i> , 2019, 122, 99-108.	1.2	23

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73	A fully human scFv phage display library for rapid antibody fragment reformatting. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 307-316.	1.0	22
74	Recent advances in RNA structurome. <i>Science China Life Sciences</i> , 2022, 65, 1285-1324.	2.3	22
75	Regulation of splicing enhancer activities by RNA secondary structures. <i>FEBS Letters</i> , 2010, 584, 4401-4407.	1.3	21
76	Oncogenic miR-17/20a Forms a Positive Feed-forward Loop with the p53 Kinase DAPK3 to Promote Tumorigenesis. <i>Journal of Biological Chemistry</i> , 2015, 290, 19967-19975.	1.6	21
77	GoldCLIP: Gel-omitted Ligation-dependent CLIP. <i>Genomics, Proteomics and Bioinformatics</i> , 2018, 16, 136-143.	3.0	21
78	Actin Polymerization and ESCRT Trigger Recruitment of the Fusogens Syntaxin-2 and EFF-1 to Promote Membrane Repair in <i>C.Âlegans</i> . <i>Developmental Cell</i> , 2020, 54, 624-638.e5.	3.1	20
79	Exome Sequencing Analysis Identifies Compound Heterozygous Mutation in ABCA4 in a Chinese Family with Stargardt Disease. <i>PLoS ONE</i> , 2014, 9, e91962.	1.1	17
80	Immune-based mutation classification enables neoantigen prioritization and immune feature discovery in cancer immunotherapy. <i>OncImmunology</i> , 2021, 10, 1868130.	2.1	17
81	LeafNet: a tool for segmenting and quantifying stomata and pavement cells. <i>Plant Cell</i> , 2022, 34, 1171-1188.	3.1	17
82	Mutant RAMP2 causes primary open-angle glaucoma via the CRLR-cAMP axis. <i>Genetics in Medicine</i> , 2019, 21, 2345-2354.	1.1	16
83	MVIP: multi-omics portal of viral infection. <i>Nucleic Acids Research</i> , 2022, 50, D817-D827.	6.5	16
84	A Genetic Variant in the SKIV2L Gene Is Significantly Associated With Age-Related Macular Degeneration in a Han Chinese Population. , 2013, 54, 2911.		15
85	High Throughput Identification of Monoclonal Antibodies to Membrane Bound and Secreted Proteins Using Yeast and Phage Display. <i>PLoS ONE</i> , 2014, 9, e111339.	1.1	15
86	Oâ€GlcNAcylation of TDPâ€43 suppresses proteinopathies and promotes TDPâ€43â€™s mRNA splicing activity. <i>EMBO Reports</i> , 2021, 22, e51649.	2.0	15
87	Full-length annotation with multistrategy RNA-seq uncovers transcriptional regulation of lncRNAs in cotton. <i>Plant Physiology</i> , 2021, 185, 179-195.	2.3	15
88	A U2-snRNPâ€independent role of SF3b in promoting mRNA export. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7837-7846.	3.3	13
89	Whole-exome sequencing reveals a novel frameshift mutation in the FAM161A gene causing autosomal recessive retinitis pigmentosa in the Indian population. <i>Journal of Human Genetics</i> , 2015, 60, 625-630.	1.1	12
90	Hypercholesterolemia risk-associated GPR146 is an orphan G-protein coupled receptor that regulates blood cholesterol levels in humans and mice. <i>Cell Research</i> , 2020, 30, 363-365.	5.7	12

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91	Exome Sequencing Identified a Recessive <i>RDH12</i> Mutation in a Family with Severe Early-Onset Retinitis Pigmentosa. <i>Journal of Ophthalmology</i> , 2015, 2015, 1-7.	0.6	11
92	Multiplex Analysis of PolyA-Linked Sequences (MAPS): An RNA-Seq Strategy to Profile Poly(A+) RNA. <i>Methods in Molecular Biology</i> , 2014, 1125, 169-178.	0.4	10
93	Knockout of glutathione peroxidase 5 down-regulates the piRNAs in the caput epididymidis of aged mice. <i>Asian Journal of Andrology</i> , 2020, 22, 590.	0.8	10
94	Overexpression of membrane-type 2 matrix metalloproteinase induced by hypoxia-inducible factor-1 $\alpha$ in pancreatic cancer: Implications for tumor progression and prognosis. <i>Molecular and Clinical Oncology</i> , 2014, 2, 973-981.	0.4	9
95	An accurate quantitative method for screening effective siRNA probes targeting a Hepatitis B virus transcript in single living cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 866-873.	1.0	8
96	Defective minor spliceosomes induce SMA-associated phenotypes through sensitive intron-containing neural genes in <i>Drosophila</i> . <i>Nature Communications</i> , 2020, 11, 5608.	5.8	8
97	SLC35B2 Acts in a Dual Role in the Host Sulfation Required for EV71 Infection. <i>Journal of Virology</i> , 2022, 96, e0204221.	1.5	8
98	Context-dependent modulation of Pol II CTD phosphatase SSUP-72 regulates alternative polyadenylation in neuronal development. <i>Genes and Development</i> , 2015, 29, 2377-2390.	2.7	7
99	A Novel CRYBB2 Stopgain Mutation Causing Congenital Autosomal Dominant Cataract in a Chinese Family. <i>Journal of Ophthalmology</i> , 2016, 2016, 1-8.	0.6	7
100	Effect of <i>Moringa oleifera</i> stem extract on hydrogen peroxide-induced opacity of cultured mouse lens. <i>BMC Complementary and Alternative Medicine</i> , 2019, 19, 144.	3.7	7
101	Biomarkers and Immune Repertoire Metrics Identified by Peripheral Blood Transcriptomic Sequencing Reveal the Pathogenesis of COVID-19. <i>Frontiers in Immunology</i> , 2021, 12, 677025.	2.2	7
102	Whole exome sequencing identified novel CRB1 mutations in Chinese and Indian populations with autosomal recessive retinitis pigmentosa. <i>Scientific Reports</i> , 2016, 6, 33681.	1.6	6
103	HCV dsRNA-Activated Macrophages Inhibit HCV Replication in Hepatocytes. <i>Hepatitis Monthly</i> , 2015, 15, e29282.	0.1	6
104	Phytochemical wedelolactone reverses obesity by prompting adipose browning through SIRT1/AMPK/PPAR $\alpha$ pathway via targeting nicotinamide N-methyltransferase. <i>Phytomedicine</i> , 2022, 94, 153843.	2.3	6
105	Characterization of the replicon of a 51-kb native plasmid from the gram-positive bacterium <i>Leifsonia xyli</i> subsp. <i>cynodontis</i> . <i>FEMS Microbiology Letters</i> , 2004, 236, 33-39.	0.7	6
106	Flexible RNA design under structure and sequence constraints using formal languages. , 2013, ,		5
107	Identification of Key Genes and Pathways Associated with Age-Related Macular Degeneration. <i>Journal of Ophthalmology</i> , 2020, 2020, 1-10.	0.6	5
108	ASER: Animal Sex Reversal Database. <i>Genomics, Proteomics and Bioinformatics</i> , 2021, 19, 873-881.	3.0	5

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109	Efficacy of amiodarone and lidocaine for preventing ventricular fibrillation after aortic cross-clamp release in open heart surgery: a meta-analysis of randomized controlled trials. <i>Journal of Zhejiang University: Science B</i> , 2017, 18, 1113-1122.	1.3	4
110	Discovery of internalizing antibodies to basal breast cancer cells. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 17-28.	1.0	4
111	Deletion of <i>Asrgl1</i> Leads to Photoreceptor Degeneration in Mice. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 783547.	1.8	4
112	Role of Apg-1 in HSF1 activation and bortezomib sensitivity in myeloma cells. <i>Experimental Hematology</i> , 2020, 81, 50-59.	0.2	2
113	ILF3 represses repeat-derived microRNAs targeting RIG-I mediated type I interferon response. <i>Journal of Molecular Biology</i> , 2022, 434, 167469.	2.0	2
114	Coupling of Transcription with mRNA Processing in time and Space. <i>FASEB Journal</i> , 2015, 29, 238.1.	0.2	0