

Yu-hang Chen

List of Publications by Year in descending order

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69
papers

6,707
citations

136885

32
h-index

91828

69
g-index

73
all docs

73
docs citations

73
times ranked

11025
citing authors

#	ARTICLE	IF	CITATIONS
1	A long noncoding RNA maintains active chromatin to coordinate homeotic gene expression. <i>Nature</i> , 2011, 472, 120-124.	13.7	1,760
2	Molecular Architecture of the SARS-CoV-2 Virus. <i>Cell</i> , 2020, 183, 730-738.e13.	13.5	793
3	The ZAR1 resistosome is a calcium-permeable channel triggering plant immune signaling. <i>Cell</i> , 2021, 184, 3528-3541.e12.	13.5	308
4	Targeted, random mutagenesis of plant genes with dual cytosine and adenine base editors. <i>Nature Biotechnology</i> , 2020, 38, 875-882.	9.4	259
5	Targeting MLL1 H3K4 Methyltransferase Activity in Mixed-Lineage Leukemia. <i>Molecular Cell</i> , 2014, 53, 247-261.	4.5	252
6	Crystal structure of human histone lysine-specific demethylase 1 (LSD1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13956-13961.	3.3	248
7	A Shared Docking Motif in TRF1 and TRF2 Used for Differential Recruitment of Telomeric Proteins. <i>Science</i> , 2008, 319, 1092-1096.	6.0	227
8	Structural basis for activity regulation of MLL family methyltransferases. <i>Nature</i> , 2016, 530, 447-452.	13.7	189
9	Essential role of lncRNA binding for WDR5 maintenance of active chromatin and embryonic stem cell pluripotency. <i>ELife</i> , 2014, 3, e02046.	2.8	176
10	High-Affinity, Small-Molecule Peptidomimetic Inhibitors of MLL1/WDR5 Protein-Protein Interaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 669-682.	6.6	157
11	Activation of DegP chaperone-protease via formation of large cage-like oligomers upon binding to substrate proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11939-11944.	3.3	151
12	Developmental ROS individualizes organismal stress resistance and lifespan. <i>Nature</i> , 2019, 576, 301-305.	13.7	151
13	Structural basis of nucleosome recognition and modification by MLL methyltransferases. <i>Nature</i> , 2019, 573, 445-449.	13.7	134
14	TRF2-RAP1 is required to protect telomeres from engaging in homologous recombination-mediated deletions and fusions. <i>Nature Communications</i> , 2016, 7, 10881.	5.8	106
15	A sequential EMT-MET mechanism drives the differentiation of human embryonic stem cells towards hepatocytes. <i>Nature Communications</i> , 2017, 8, 15166.	5.8	106
16	Rationally Designed APOBEC3B Cytosine Base Editors with Improved Specificity. <i>Molecular Cell</i> , 2020, 79, 728-740.e6.	4.5	104
17	SLX4 Assembles a Telomere Maintenance Toolkit by Bridging Multiple Endonucleases with Telomeres. <i>Cell Reports</i> , 2013, 4, 861-869.	2.9	103
18	A conserved motif within RAP1 has diversified roles in telomere protection and regulation in different organisms. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 213-221.	3.6	100

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19	An Ash2L/RbBP5 Heterodimer Stimulates the MLL1 Methyltransferase Activity through Coordinated Substrate Interactions with the MLL1 SET Domain. <i>PLoS ONE</i> , 2010, 5, e14102.	1.1	98
20	DnaK and DnaJ facilitated the folding process and reduced inclusion body formation of magnesium transporter CorA overexpressed in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2003, 32, 221-231.	0.6	80
21	Structural and functional analyses of the mammalian TIN2-TPP1-TRF2 telomeric complex. <i>Cell Research</i> , 2017, 27, 1485-1502.	5.7	76
22	Discovery of a Highly Potent, Cell-Permeable Macrocyclic Peptidomimetic (MM-589) Targeting the WD Repeat Domain 5 Protein (WDR5)â€“Mixed Lineage Leukemia (MLL) Proteinâ€“Protein Interaction. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4818-4839.	2.9	72
23	Practical aspects of overexpressing bacterial secondary membrane transporters for structural studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1610, 23-36.	1.4	71
24	Ring-like pore structures of SecA: Implication for bacterial protein-conducting channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4221-4226.	3.3	69
25	Chromosome engineering of the TCA cycle in <i>Halomonas bluephagenesis</i> for production of copolymers of 3-hydroxybutyrate and 3-hydroxyvalerate (PHBV). <i>Metabolic Engineering</i> , 2019, 54, 69-82.	3.6	65
26	Structural Basis of Selective Ubiquitination of TRF1 by SCFFbx4. <i>Developmental Cell</i> , 2010, 18, 214-225.	3.1	55
27	CRISPRâ€“Cas9-mediated base-editing screening in mice identifies DND1 amino acids that are critical for primordial germ cell development. <i>Nature Cell Biology</i> , 2018, 20, 1315-1325.	4.6	54
28	Microbial engineering for easy downstream processing. <i>Biotechnology Advances</i> , 2019, 37, 107365.	6.0	52
29	Crystal structure of the Nâ€“terminal region of human Ash2L shows a wingedâ€“helix motif involved in DNA binding. <i>EMBO Reports</i> , 2011, 12, 797-803.	2.0	49
30	Coordinated regulation of heterochromatin inheritance by Dpb3â€“Dpb4 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12524-12529.	3.3	47
31	NBS1 Phosphorylation Status Dictates Repair Choice of Dysfunctional Telomeres. <i>Molecular Cell</i> , 2017, 65, 801-817.e4.	4.5	45
32	Structure of the SPRY domain of human Ash2L and its interactions with RbBP5 and DPY30. <i>Cell Research</i> , 2012, 22, 598-602.	5.7	44
33	Structure and activity of SLAC1 channels for stomatal signaling in leaves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	35
34	Structural basis for activity of TRIC counter-ion channels in calcium release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4238-4243.	3.3	26
35	Absence of the long noncoding RNA H19 results in aberrant ovarian STAR and progesterone production. <i>Molecular and Cellular Endocrinology</i> , 2019, 490, 15-20.	1.6	22
36	The identification of a new actin-binding region in p57. <i>Cell Research</i> , 2006, 16, 106-112.	5.7	20

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37	Ccp1 Homodimer Mediates Chromatin Integrity by Antagonizing CENP-A Loading. <i>Molecular Cell</i> , 2016, 64, 79-91.	4.5	20
38	Distinct functions of POT1 proteins contribute to the regulation of telomerase recruitment to telomeres. <i>Nature Communications</i> , 2021, 12, 5514.	5.8	20
39	Full-length Escherichia coli SecA Dimerizes in a Closed Conformation in Solution as Determined by Cryo-electron Microscopy. <i>Journal of Biological Chemistry</i> , 2008, 283, 28783-28787.	1.6	19
40	The structural biology of the shelterin complex. <i>Biological Chemistry</i> , 2019, 400, 457-466.	1.2	19
41	Taf14 recognizes a common motif in transcriptional machineries and facilitates their clustering by phase separation. <i>Nature Communications</i> , 2020, 11, 4206.	5.8	19
42	Design of High-Affinity Stapled Peptides To Target the Repressor Activator Protein 1 (RAP1)/Telomeric Repeat-Binding Factor 2 (TRF2) Protein-Protein Interaction in the Shelterin Complex. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 328-334.	2.9	18
43	The Structural Basis for Specific Recognition of H3K14 Acetylation by Sth1 in the RSC Chromatin Remodeling Complex. <i>Structure</i> , 2020, 28, 111-118.e3.	1.6	18
44	The active ring-like structure of SecA revealed by electron crystallography: Conformational change upon interaction with SecB. <i>Journal of Structural Biology</i> , 2007, 159, 149-153.	1.3	16
45	The internal interaction in RBBP5 regulates assembly and activity of MLL1 methyltransferase complex. <i>Nucleic Acids Research</i> , 2019, 47, 10426-10438.	6.5	16
46	Structural insights into chromosome attachment to the nuclear envelope by an inner nuclear membrane protein Bqt4 in fission yeast. <i>Nucleic Acids Research</i> , 2019, 47, 1573-1584.	6.5	16
47	Heterochromatin and RNAi regulate centromeres by protecting CENP-A from ubiquitin-mediated degradation. <i>PLoS Genetics</i> , 2018, 14, e1007572.	1.5	15
48	Dimerization of SLX4 contributes to functioning of the SLX4-nuclease complex. <i>Nucleic Acids Research</i> , 2016, 44, 4871-4880.	6.5	14
49	Structure of the fission yeast <i>S. pombe</i> telomeric Tpz1-Poz1-Rap1 complex. <i>Cell Research</i> , 2017, 27, 1503-1520.	5.7	14
50	Crystal Structure of MLL2 Complex Guides the Identification of a Methylation Site on P53 Catalyzed by KMT2 Family Methyltransferases. <i>Structure</i> , 2020, 28, 1141-1148.e4.	1.6	14
51	Escherichia coli CorA Periplasmic Domain Functions as a Homotetramer to Bind Substrate. <i>Journal of Biological Chemistry</i> , 2006, 281, 26813-26820.	1.6	13
52	Microcephalin 1/BRIT1-TRF2 interaction promotes telomere replication and repair, linking telomere dysfunction to primary microcephaly. <i>Nature Communications</i> , 2020, 11, 5861.	5.8	13
53	Cryo-EM structure and electrophysiological characterization of ALMT from <i>Glycine max</i> reveal a previously uncharacterized class of anion channels. <i>Science Advances</i> , 2022, 8, eabm3238.	4.7	13
54	Structural basis for conductance through TRIC cation channels. <i>Nature Communications</i> , 2017, 8, 15103.	5.8	12

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55	The relationship between H19 and parameters of ovarian reserve. <i>Reproductive Biology and Endocrinology</i> , 2020, 18, 46.	1.4	12
56	Polymorphism of structural forms of C-reactive protein. <i>International Journal of Molecular Medicine</i> , 2002, 9, 665.	1.8	10
57	Structural basis for DAXX interaction with ATRX. <i>Protein and Cell</i> , 2017, 8, 767-771.	4.8	10
58	Cyclic Peptidic Mimetics of Apollo Peptides Targeting Telomeric Repeat Binding Factor 2 (TRF2) and Apollo Interaction. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 507-511.	1.3	10
59	Characterization and Nonenzymatic Transformation of Three Types of Alkaloids from <i>Streptomyces albogriseolus</i> MGR072 and Discovery of Inhibitors of Indoleamine 2,3-Dioxygenase. <i>Organic Letters</i> , 2019, 21, 8577-8581.	2.4	10
60	The Replisome Mediates A-NHEJ Repair of Telomeres Lacking POT1-TPP1 Independently of MRN Function. <i>Cell Reports</i> , 2019, 29, 3708-3725.e5.	2.9	10
61	Two-dimensional crystallization of a small heat shock protein HSP16.3 on lipid layer. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 360-366.	1.0	8
62	Dimeric SecA Couples the Preprotein Translocation in an Asymmetric Manner. <i>PLoS ONE</i> , 2011, 6, e16498.	1.1	8
63	The Inner Nuclear Membrane Protein Bqt4 in Fission Yeast Contains a DNA-Binding Domain Essential for Telomere Association with the Nuclear Envelope. <i>Structure</i> , 2019, 27, 335-343.e3.	1.6	8
64	Distinct kinetic mechanisms of H3K4 methylation catalyzed by MLL3 and MLL4 core complexes. <i>Journal of Biological Chemistry</i> , 2021, 296, 100635.	1.6	6
65	Global profiling of regulatory elements in the histone benzoylation pathway. <i>Nature Communications</i> , 2022, 13, 1369.	5.8	6
66	N-terminal modified cyclopeptidic mimetics of ApolloTBM as inhibitors of TRF2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127401.	1.0	4
67	Dri1 mediates heterochromatin assembly via RNAi and histone deacetylation. <i>Genetics</i> , 2021, 218, .	1.2	4
68	Development and optimization of a cascade of screening assays for inhibitors of TRF2. <i>Analytical Biochemistry</i> , 2020, 602, 113796.	1.1	3
69	Ccp1-Ndc80 switch at the N terminus of CENP-T regulates kinetochore assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	3