Xiao-Dong Su

List of Publications by Year
in descending order

50 papers	4,514 citations	279798 23 h-index	189892 50 g-index
52 all docs	52 docs citations	52 times ranked	9435 citing authors

#	Article	IF	Citations
1	Potent Neutralizing Antibodies against SARS-CoV-2 Identified by High-Throughput Single-Cell Sequencing of Convalescent Patientsâ€™ B Cells. Cell, 2020, 182, 73-84.e16.	28.9	1,139
2	Reproducible copy number variation patterns among single circulating tumor cells of lung cancer patients. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21083-21088.	7.1	396
3	Manganese Increases the Sensitivity of the cGAS-STING Pathway for Double-Stranded DNA and Is Required for the Host Defense against DNA Viruses. Immunity, 2018, 48, 675-687.e7.	14.3	369
4	RNA-seq of 272 gliomas revealed a novel, recurrent PTPRZ1-MET fusion transcript in secondary glioblastomas. Genome Research, 2014, 24, 1765-1773.	5.5	316
5	Structurally Resolved SARS-CoV-2 Antibody Shows High Efficacy in Severely Infected Hamsters and Provides a Potent Cocktail Pairing Strategy. Cell, 2020, 183, 1013-1023.e13.	28.9	227
6	Inflammasome Activation Triggers Caspase-1-Mediated Cleavage of cGAS to Regulate Responses to DNA Virus Infection. Immunity, 2017, 46, 393-404.	14.3	195
7	Mutations on RBD of SARS-CoV-2 Omicron variant result in stronger binding to human ACE2 receptor. Biochemical and Biophysical Research Communications, 2022, 590, 34-41.	2.1	178
8	Fluorescent indicators for simultaneous reporting of all four cell cycle phases. Nature Methods, 2016, 13, 993-996.	19.0	171
9	Pathway-based classification of glioblastoma uncovers a mitochondrial subtype with therapeutic vulnerabilities. Nature Cancer, 2021, 2, 141-156.	13.2	163
10	Mn2+ Directly Activates cGAS and Structural Analysis Suggests Mn2+ Induces a Noncanonical Catalytic Synthesis of 2â€²3â€²-cGAMP. Cell Reports, 2020, 32, 108053.	6.4	135
11	DNA binding mechanism revealed by high resolution crystal structure of Arabidopsis thaliana WRKY1 protein. Nucleic Acids Research, 2007, 35, 1145-1154.	14.5	131
12	Cryo-EM structure of full-length Î±-synuclein amyloid fibril with Parkinsonâ€™s disease familial A53T mutation. Cell Research, 2020, 30, 360-362.	12.0	94
13	Structural insights into immunoglobulin M. Science, 2020, 367, 1014-1017.	12.6	88
14	Surveying brain tumor heterogeneity by single-cell RNA-sequencing of multi-sector biopsies. National Science Review, 2020, 7, 1306-1318.	9.5	84
15	Identification and characterization of phosphodiesterases that specifically degrade 3â€²3â€²-cyclic GMP-AMP. Cell Research, 2015, 25, 539-550.	12.0	83
16	Parkinsonâ€™s disease associated mutation E46K of Î±-synuclein triggers the formation of a distinct fibril structure. Nature Communications, 2020, 11, 2643.	12.8	76
17	Nonspecific DNA Binding of cGAS N Terminus Promotes cGAS Activation. Journal of Immunology, 2017, 198, 3627-3636.	0.8	67
18	Crystal Structure of Tetrameric Arabidopsis MYC2 Reveals the Mechanism of Enhanced Interaction with DNA. Cell Reports, 2017, 19, 1334-1342.	6.4	49

#	Article	IF	Citations
19	Ten emerging SARS-CoV-2 spike variants exhibit variable infectivity, animal tropism, and antibody neutralization. Communications Biology, 2021, 4, 1196.	4.4	49
20	The effects of cytosine methylation on general transcription factors. Scientific Reports, 2016, 6, 29119.	3.3	38
21	Protein crystallography from the perspective of technology developments. Crystallography Reviews, 2015, 21, 122-153.	1.5	33
22	A map of tumorâ€“host interactions in glioma at single-cell resolution. GigaScience, 2020, 9, .	6.4	32
23	Single-cell transcriptomic profiling unravels the adenoma-initiation role of protein tyrosine kinases during colorectal tumorigenesis. Signal Transduction and Targeted Therapy, 2022, 7, 60.	17.1	31
24	Rat and human STINGs profile similarly towards anticancer/antiviral compounds. Scientific Reports, 2015, 5, 18035.	3.3	26
25	T7 RNA polymerase translocation is facilitated by a helix opening on the fingers domain that may also prevent backtracking. Nucleic Acids Research, 2017, 45, 7909-7921.	14.5	25
26	Crystal structures of N-terminal WRKY transcription factors and DNA complexes. Protein and Cell, 2020, 11, 208-213.	11.0	25
27	Reduced sensitivity of the SARS-CoV-2 Lambda variant to monoclonal antibodies and neutralizing antibodies induced by infection and vaccination. Emerging Microbes and Infections, 2022, 11, 18-29.	6.5	25
28	MapZ Forms a Stable Ring Structure That Acts As a Nanotrack for FtsZ Treadmilling in Streptococcus mutans. ACS Nano, 2018, 12, 6137-6146.	14.6	23
29	Revealing atomic-scale molecular diffusion of a plant-transcription factor WRKY domain protein along DNA. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
30	Enhanced expression and phosphorylation of the MET oncoprotein by gliomaâ€specific PTPRZ1â€“MET fusions. FEBS Letters, 2015, 589, 1437-1443.	2.8	20
31	On the origin of SARS-CoV-2â€”The blind watchmaker argument. Science China Life Sciences, 2021, 64, 1560-1563.	4.9	18
32	HeLa-CCL2 cell heterogeneity studied by single-cell DNA and RNA sequencing. PLoS ONE, 2019, 14, e0225466.	2.5	17
33	Single Mutations Reshape the Structural Correlation Network of the DMXAAâ€“Human STING Complex. Journal of Physical Chemistry B, 2017, 121, 2073-2082.	2.6	14
34	Polo-like kinase 1 (PLK1)-dependent phosphorylation of methylenetetrahydrofolate reductase (MTHFR) regulates replication via histone methylation. Cell Cycle, 2017, 16, 1933-1942.	2.6	14
35	Novel Mechanism for Cyclic Dinucleotide Degradation Revealed by Structural Studies of Vibrio Phosphodiesterase V-cGAP3. Journal of Molecular Biology, 2018, 430, 5080-5093.	4.2	13
36	Structure-based analyses of neutralization antibodies interacting with naturally occurring SARS-CoV-2 RBD variants. Cell Research, 2021, 31, 1126-1129.	12.0	13

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37	The regulatory mechanism of the caspase 6 pro-domain revealed by crystal structure and biochemical assays. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 58-67.	2.5	12
38	Generation of Functional Hepatocytes from Human Adipose-Derived MYC+ KLF4+ GMNN+ Stem Cells Analyzed by Single-Cell RNA-Seq Profiling. Stem Cells Translational Medicine, 2018, 7, 792-805.	3.3	12
39	Deep sequencing reveals global patterns of mRNA recruitment during translation initiation. Scientific Reports, 2016, 6, 30170.	3.3	11
40	Computational insights into differential interaction of mammalian angiotensin-converting enzyme 2 with the SARS-CoV-2 spike receptor binding domain. Computers in Biology and Medicine, 2022, 141, 105017.	7.0	11
41	Co-expression modules of NF1, PTEN and sprouty enable distinction of adult diffuse gliomas according to pathway activities of receptor tyrosine kinases. Oncotarget, 2016, 7, 59098-59114.	1.8	10
42	Complete Mapping of DNAâ€Protein Interactions at the Singleâ€Molecule Level. Advanced Science, 2021, 8, e2101383.	11.2	10
43	Structural and biochemical characterization of MdaB from cariogenicStreptococcus mutansreveals an NADPH-specific quinone oxidoreductase. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 912-921.	2.5	9
44	Multifunctional Immunoliposomes Enhance the Immunotherapeutic Effects of PDâ€L1 Antibodies against Melanoma by Reprogramming Immunosuppressive Tumor Microenvironment. Small, 2022, 18, e2105118.	10.0	8
45	Identification of WD40 repeats by secondary structure-aided profileâ€“profile alignment. Journal of Theoretical Biology, 2016, 398, 122-129.	1.7	7
46	Detection of Cyclic Dinucleotides by STING. Methods in Molecular Biology, 2017, 1657, 59-69.	0.9	7
47	Lighting Up Live Cells with Smart Genetically Encoded Fluorescence Probes from GMars Family. ACS Sensors, 2018, 3, 2269-2277.	7.8	5
48	High-accuracy mapping of protein binding stability on nucleosomal DNA using a single-molecule method. Journal of Molecular Cell Biology, 2014, 6, 438-440.	3.3	3
49	Macromolecules and Antibody-Based Drugs. Advances in Experimental Medicine and Biology, 2020, 1248, 485-530.	1.6	3
50	Davydovâ€“Pang model: An improved Davydov protein soliton theory. Physics of Life Reviews, 2011, 8, 300-301.	2.8	2