

Xiao-Dong Su

List of Publications by Year in descending order

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Version: 2024-02-01

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	Computational insights into differential interaction of mammalian angiotensin-converting enzyme 2 with the SARS-CoV-2 spike receptor binding domain. <i>Computers in Biology and Medicine</i> , 2022, 141, 105017.	7.0	11
2	Reduced sensitivity of the SARS-CoV-2 Lambda variant to monoclonal antibodies and neutralizing antibodies induced by infection and vaccination. <i>Emerging Microbes and Infections</i> , 2022, 11, 18-29.	6.5	25
3	Mutations on RBD of SARS-CoV-2 Omicron variant result in stronger binding to human ACE2 receptor. <i>Biochemical and Biophysical Research Communications</i> , 2022, 590, 34-41.	2.1	178
4	Single-cell transcriptomic profiling unravels the adenoma-initiation role of protein tyrosine kinases during colorectal tumorigenesis. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 60.	17.1	31
5	Multifunctional Immunoliposomes Enhance the Immunotherapeutic Effects of PD-1 Antibodies against Melanoma by Reprogramming Immunosuppressive Tumor Microenvironment. <i>Small</i> , 2022, 18, e2105118.	10.0	8
6	Pathway-based classification of glioblastoma uncovers a mitochondrial subtype with therapeutic vulnerabilities. <i>Nature Cancer</i> , 2021, 2, 141-156.	13.2	163
7	Revealing atomic-scale molecular diffusion of a plant-transcription factor WRKY domain protein along DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
8	On the origin of SARS-CoV-2â€”The blind watchmaker argument. <i>Science China Life Sciences</i> , 2021, 64, 1560-1563.	4.9	18
9	Structure-based analyses of neutralization antibodies interacting with naturally occurring SARS-CoV-2 RBD variants. <i>Cell Research</i> , 2021, 31, 1126-1129.	12.0	13
10	Ten emerging SARS-CoV-2 spike variants exhibit variable infectivity, animal tropism, and antibody neutralization. <i>Communications Biology</i> , 2021, 4, 1196.	4.4	49
11	Complete Mapping of DNA-Protein Interactions at the Single-Molecule Level. <i>Advanced Science</i> , 2021, 8, e2101383.	11.2	10
12	Crystal structures of N-terminal WRKY transcription factors and DNA complexes. <i>Protein and Cell</i> , 2020, 11, 208-213.	11.0	25
13	Structurally Resolved SARS-CoV-2 Antibody Shows High Efficacy in Severely Infected Hamsters and Provides a Potent Cocktail Pairing Strategy. <i>Cell</i> , 2020, 183, 1013-1023.e13.	28.9	227
14	Mn ²⁺ Directly Activates cGAS and Structural Analysis Suggests Mn ²⁺ Induces a Noncanonical Catalytic Synthesis of 2â€²3â€²-cGAMP. <i>Cell Reports</i> , 2020, 32, 108053.	6.4	135
15	A map of tumor-host interactions in glioma at single-cell resolution. <i>GigaScience</i> , 2020, 9, .	6.4	32
16	Potent Neutralizing Antibodies against SARS-CoV-2 Identified by High-Throughput Single-Cell Sequencing of Convalescent Patientsâ€™ B Cells. <i>Cell</i> , 2020, 182, 73-84.e16.	28.9	1,139
17	Surveying brain tumor heterogeneity by single-cell RNA-sequencing of multi-sector biopsies. <i>National Science Review</i> , 2020, 7, 1306-1318.	9.5	84
18	Parkinsonâ€™s disease associated mutation E46K of α -synuclein triggers the formation of a distinct fibril structure. <i>Nature Communications</i> , 2020, 11, 2643.	12.8	76

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19	Cryo-EM structure of full-length α -synuclein amyloid fibril with Parkinson's disease familial A53T mutation. <i>Cell Research</i> , 2020, 30, 360-362.	12.0	94
20	Structural insights into immunoglobulin M. <i>Science</i> , 2020, 367, 1014-1017.	12.6	88
21	Macromolecules and Antibody-Based Drugs. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1248, 485-530.	1.6	3
22	HeLa-CCL2 cell heterogeneity studied by single-cell DNA and RNA sequencing. <i>PLoS ONE</i> , 2019, 14, e0225466.	2.5	17
23	Manganese Increases the Sensitivity of the cGAS-STING Pathway for Double-Stranded DNA and Is Required for the Host Defense against DNA Viruses. <i>Immunity</i> , 2018, 48, 675-687.e7.	14.3	369
24	Generation of Functional Hepatocytes from Human Adipose-Derived MYC+ KLF4+ GMNN+ Stem Cells Analyzed by Single-Cell RNA-Seq Profiling. <i>Stem Cells Translational Medicine</i> , 2018, 7, 792-805.	3.3	12
25	Novel Mechanism for Cyclic Dinucleotide Degradation Revealed by Structural Studies of <i>Vibrio</i> Phosphodiesterase V-cGAP3. <i>Journal of Molecular Biology</i> , 2018, 430, 5080-5093.	4.2	13
26	Lighting Up Live Cells with Smart Genetically Encoded Fluorescence Probes from GMars Family. <i>ACS Sensors</i> , 2018, 3, 2269-2277.	7.8	5
27	MapZ Forms a Stable Ring Structure That Acts As a Nanotrack for FtsZ Treadmilling in <i>Streptococcus mutans</i> . <i>ACS Nano</i> , 2018, 12, 6137-6146.	14.6	23
28	Single Mutations Reshape the Structural Correlation Network of the DMXAA-Human STING Complex. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2073-2082.	2.6	14
29	Crystal Structure of Tetrameric Arabidopsis MYC2 Reveals the Mechanism of Enhanced Interaction with DNA. <i>Cell Reports</i> , 2017, 19, 1334-1342.	6.4	49
30	Nonspecific DNA Binding of cGAS N Terminus Promotes cGAS Activation. <i>Journal of Immunology</i> , 2017, 198, 3627-3636.	0.8	67
31	Inflammasome Activation Triggers Caspase-1-Mediated Cleavage of cGAS to Regulate Responses to DNA Virus Infection. <i>Immunity</i> , 2017, 46, 393-404.	14.3	195
32	Detection of Cyclic Dinucleotides by STING. <i>Methods in Molecular Biology</i> , 2017, 1657, 59-69.	0.9	7
33	Polo-like kinase 1 (PLK1)-dependent phosphorylation of methylenetetrahydrofolate reductase (MTHFR) regulates replication via histone methylation. <i>Cell Cycle</i> , 2017, 16, 1933-1942.	2.6	14
34	T7 RNA polymerase translocation is facilitated by a helix opening on the fingers domain that may also prevent backtracking. <i>Nucleic Acids Research</i> , 2017, 45, 7909-7921.	14.5	25
35	The effects of cytosine methylation on general transcription factors. <i>Scientific Reports</i> , 2016, 6, 29119.	3.3	38
36	Identification of WD40 repeats by secondary structure-aided profile-profile alignment. <i>Journal of Theoretical Biology</i> , 2016, 398, 122-129.	1.7	7

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37	Deep sequencing reveals global patterns of mRNA recruitment during translation initiation. <i>Scientific Reports</i> , 2016, 6, 30170.	3.3	11
38	Fluorescent indicators for simultaneous reporting of all four cell cycle phases. <i>Nature Methods</i> , 2016, 13, 993-996.	19.0	171
39	Co-expression modules of NF1, PTEN and sprouty enable distinction of adult diffuse gliomas according to pathway activities of receptor tyrosine kinases. <i>Oncotarget</i> , 2016, 7, 59098-59114.	1.8	10
40	Rat and human STINGs profile similarly towards anticancer/antiviral compounds. <i>Scientific Reports</i> , 2015, 5, 18035.	3.3	26
41	Enhanced expression and phosphorylation of the MET oncoprotein by glioma-specific PTPRZ1-MET fusions. <i>FEBS Letters</i> , 2015, 589, 1437-1443.	2.8	20
42	Identification and characterization of phosphodiesterases that specifically degrade 3'-cyclic GMP-AMP. <i>Cell Research</i> , 2015, 25, 539-550.	12.0	83
43	Protein crystallography from the perspective of technology developments. <i>Crystallography Reviews</i> , 2015, 21, 122-153.	1.5	33
44	Structural and biochemical characterization of MdaB from cariogenic <i>Streptococcus mutans</i> reveals an NADPH-specific quinone oxidoreductase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 912-921.	2.5	9
45	The regulatory mechanism of the caspase 6 pro-domain revealed by crystal structure and biochemical assays. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 58-67.	2.5	12
46	High-accuracy mapping of protein binding stability on nucleosomal DNA using a single-molecule method. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 438-440.	3.3	3
47	RNA-seq of 272 gliomas revealed a novel, recurrent PTPRZ1-MET fusion transcript in secondary glioblastomas. <i>Genome Research</i> , 2014, 24, 1765-1773.	5.5	316
48	Reproducible copy number variation patterns among single circulating tumor cells of lung cancer patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 21083-21088.	7.1	396
49	Davydov-Pang model: An improved Davydov protein soliton theory. <i>Physics of Life Reviews</i> , 2011, 8, 300-301.	2.8	2
50	DNA binding mechanism revealed by high resolution crystal structure of <i>Arabidopsis thaliana</i> WRKY1 protein. <i>Nucleic Acids Research</i> , 2007, 35, 1145-1154.	14.5	131