Songying Ouyang

List of Publications by Year
in descending order

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88 papers	3,265 citations	185998 28 h-index	168136 53 g-index
95 all docs	95 docs citations	95 times ranked	5378 citing authors

#	Article	IF	Citations
1	The helicase DDX41 recognizes the bacterial secondary messengers cyclic di-GMP and cyclic di-AMP to activate a type I interferon immune response. Nature Immunology, 2012, 13, 1155-1161.	7.0	363
2	Structural Analysis of the STING Adaptor Protein Reveals a Hydrophobic Dimer Interface and Mode of Cyclic di-GMP Binding. Immunity, 2012, 36, 1073-1086.	6.6	282
3	From Mosquitos to Humans: Genetic Evolution of Zika Virus. Cell Host and Microbe, 2016, 19, 561-565.	5.1	199
4	Functional Self-Assembling Peptide Nanofiber Hydrogels Designed for Nerve Degeneration. ACS Applied Materials & Interfaces, 2016, 8, 2348-2359.	4.0	180
5	HER2 recruits AKT1 to disrupt STING signalling and suppress antiviral defence and antitumour immunity. Nature Cell Biology, 2019, 21, 1027-1040.	4.6	163
6	Regulation of phosphoribosyl ubiquitination by a calmodulin-dependent glutamylase. Nature, 2019, 572, 387-391.	13.7	91
7	Structural analysis of asparaginyl endopeptidase reveals the activation mechanism and a reversible intermediate maturation stage. Cell Research, 2014, 24, 344-358.	5.7	86
8	Structural and Biochemical Characterization Reveals LysGH15 as an Unprecedented â€œEF-Hand-Likeâ€• Calcium-Binding Phage Lysin. PLoS Pathogens, 2014, 10, e1004109.	2.1	85
9	A non-canonical cGASâ€“STINGâ€“PERK pathway facilitates the translational program critical for senescence and organ fibrosis. Nature Cell Biology, 2022, 24, 766-782.	4.6	84
10	The emerging roles of the DDX41 protein in immunity and diseases. Protein and Cell, 2017, 8, 83-89.	4.8	72
11	Two HEPN domains dictate CRISPR RNA maturation and target cleavage in Cas13d. Nature Communications, 2019, 10, 2544.	5.8	68
12	Structure of Severe Fever with Thrombocytopenia Syndrome Virus Nucleocapsid Protein in Complex with Suramin Reveals Therapeutic Potential. Journal of Virology, 2013, 87, 6829-6839.	1.5	67
13	Crystal structure of an aerobic FMN-dependent azoreductase (AzoA) from Enterococcus faecalis. Archives of Biochemistry and Biophysics, 2007, 463, 68-77.	1.4	66
14	Evolutionary Arms Race between Virus and Host Drives Genetic Diversity in Bat Severe Acute Respiratory Syndrome-Related Coronavirus Spike Genes. Journal of Virology, 2020, 94, .	1.5	61
15	Structure of the Leanyer orthobunyavirus nucleoprotein-RNA complex reveals unique architecture for RNA encapsidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9054-9059.	3.3	59
16	The Nuclear Matrix Protein SAFA Surveils Viral RNA and Facilitates Immunity by Activating Antiviral Enhancers and Super-enhancers. Cell Host and Microbe, 2019, 26, 369-384.e8.	5.1	54
17	NOD1 Promotes Antiviral Signaling by Binding Viral RNA and Regulating the Interaction of MDA5 and MAVS. Journal of Immunology, 2020, 204, 2216-2231.	0.4	53
18	Induced phase separation of mutant NF2 imprisons the cGAS-STING machinery to abrogate antitumor immunity. Molecular Cell, 2021, 81, 4147-4164.e7.	4.5	51

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19	Marine-derived drugs: Recent advances in cancer therapy and immune signaling. Biomedicine and Pharmacotherapy, 2021, 134, 111091.	2.5	50
20	Structural and functional analyses of human tryptophan 2,3-dioxygenase. Proteins: Structure, Function and Bioinformatics, 2014, 82, 3210-3216.	1.5	46
21	Structural basis for DNA recognition by STAT6. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13015-13020.	3.3	46
22	Structural insight into acute intermittent porphyria. FASEB Journal, 2009, 23, 396-404.	0.2	45
23	Structural insights into Cas13b-guided CRISPR RNA maturation and recognition. Cell Research, 2018, 28, 1198-1201.	5.7	45
24	Garlic-derived compound S-allylmercaptocysteine inhibits hepatocarcinogenesis through targeting LRP6/Wnt pathway. Acta Pharmaceutica Sinica B, 2018, 8, 575-586.	5.7	43
25	High-throughput sequencing and analysis of microbial communities in the mangrove swamps along the coast of Beibu Gulf in Guangxi, China. Scientific Reports, 2019, 9, 9377.	1.6	42
26	Legionella pneumophila regulates the activity of <scp>UBE</scp> 2N by deamidaseâ€mediated deubiquitination. EMBO Journal, 2020, 39, e102806.	3.5	38
27	TBK1-Mediated DRP1 Targeting Confers Nucleic Acid Sensing to Reprogram Mitochondrial Dynamics and Physiology. Molecular Cell, 2020, 80, 810-827.e7.	4.5	35
28	The bacterial deubiquitinase Ceg23 regulates the association of Lys-63â€“linked polyubiquitin molecules on the Legionella phagosome. Journal of Biological Chemistry, 2020, 295, 1646-1657.	1.6	33
29	Crystal structure of human esterase D: a potential genetic marker of retinoblastoma. FASEB Journal, 2009, 23, 1441-1446.	0.2	31
30	Oxygen Activation of Apoâ€obelinâ€“Coelenterazine Complex. ChemBioChem, 2013, 14, 739-745.	1.3	31
31	Interplay between bacterial deubiquitinase and ubiquitin E3 ligase regulates ubiquitin dynamics on Legionella phagosomes. ELife, 2020, 9, .	2.8	29
32	Characterization of a corrinoid protein involved in the C1 metabolism of strict anaerobic bacterium Moorella thermoacetica. Proteins: Structure, Function and Bioinformatics, 2007, 67, 167-176.	1.5	28
33	Conversion of<scp>d</scp>â€ribulose 5â€phosphate to<scp>D</scp>â€xylulose 5â€phosphate: new insights from structural and biochemical studies on human RPE. FASEB Journal, 2011, 25, 497-504.	0.2	28
34	Mechanism of the Rpn13-induced activation of Uch37. Protein and Cell, 2014, 5, 616-630.	4.8	27
35	Novel polyadenylylation-dependent neutralization mechanism of the HEPN/MNT toxin/antitoxin system. Nucleic Acids Research, 2020, 48, 11054-11067.	6.5	27
36	Regulation of cGASâ€Mediated Immune Responses and Immunotherapy. Advanced Science, 2020, 7, 1902599.	5.6	26

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37	A multi-dataset data-collection strategy produces better diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 544-549.	0.3	25
38	Structural insights into a human anti-IFN antibody exerting therapeutic potential for systemic lupus erythematosus. Journal of Molecular Medicine, 2012, 90, 837-846.	1.7	25
39	Structural and functional insights into a novel two-component endolysin encoded by a single gene in Enterococcus faecalis phage. PLoS Pathogens, 2020, 16, e1008394.	2.1	24
40	Cryo-EM structures of the human PA200 and PA200-20S complex reveal regulation of proteasome gate opening and two PA200 apertures. PLoS Biology, 2020, 18, e3000654.	2.6	24
41	Functional Features and Current Applications of the RNAâ€Targeting Type VI CRISPRâ€Cas Systems. Advanced Science, 2021, 8, 2004685.	5.6	24
42	Mechanistic insights into the R-loop formation and cleavage in CRISPR-Cas12i1. Nature Communications, 2021, 12, 3476.	5.8	22
43	Protein-protein complexation in bioluminescence. Protein and Cell, 2011, 2, 957-972.	4.8	20
44	Structural and functional analyses of human DDX41 DEAD domain. Protein and Cell, 2017, 8, 72-76.	4.8	20
45	Structure based mechanism of the Ca²⁺â€induced release of coelenterazine from the Renilla binding protein. Proteins: Structure, Function and Bioinformatics, 2009, 74, 583-593.	1.5	19
46	Binding of bacterial secondary messenger molecule c di-GMP is a STING operation. Protein and Cell, 2013, 4, 117-129.	4.8	18
47	Mitrocomin from the jellyfish Mitrocoma cellularia with deleted C-terminal tyrosine reveals a higher bioluminescence activity compared to wild type photoprotein. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 286-297.	1.7	18
48	Self-capping of nucleoprotein filaments protects the Newcastle disease virus genome. ELife, 2019, 8, .	2.8	18
49	Structural biology study of human TNF receptor associated factor 4 TRAF domain. Protein and Cell, 2013, 4, 687-694.	4.8	17
50	Structural basis of AimP signaling molecule recognition by AimR in Spbeta group of bacteriophages. Protein and Cell, 2019, 10, 131-136.	4.8	17
51	Cryo-electron Microscopy Structure of the Swine Acute Diarrhea Syndrome Coronavirus Spike Glycoprotein Provides Insights into Evolution of Unique Coronavirus Spike Proteins. Journal of Virology, 2020, 94, .	1.5	17
52	aKMT Catalyzes Extensive Protein Lysine Methylation in the Hyperthermophilic Archaeon Sulfolobus islandicus but is Dispensable for the Growth of the Organism. Molecular and Cellular Proteomics, 2016, 15, 2908-2923.	2.5	16
53	Infectious hematopoietic necrosis virus N protein suppresses fish IFN1 production by targeting the MITA. Fish and Shellfish Immunology, 2020, 97, 523-530.	1.6	15
54	Molecular Basis of Ubiquitination Catalyzed by the Bacterial Transglutaminase MavC. Advanced Science, 2020, 7, 2000871.	5.6	15

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55	Diverse Roles of DEAD/DEAH-Box Helicases in Innate Immunity and Diseases. , 2019, , 141-171.		14
56	Crystal structure of a novel non-Pfam protein PF2046 solved using low resolution B-factor sharpening and multi-crystal averaging methods. Protein and Cell, 2010, 1, 453-458.	4.8	13
57	SET domain containing 1B gene is mutated in primary hepatic neuroendocrine tumors. International Journal of Cancer, 2019, 145, 2986-2995.	2.3	13
58	Insights into the evolution and hypoglycemic metabolite biosynthesis of autotetraploid Cyclocarya paliurus by combining genomic, transcriptomic and metabolomic analyses. Industrial Crops and Products, 2021, 173, 114154.	2.5	13
59	Crystal structure of the Nâ€terminal methyltransferaseâ€like domain of anamorsin. Proteins: Structure, Function and Bioinformatics, 2014, 82, 1066-1071.	1.5	12
60	Structural and Functional Characterization of the Phosphoprotein Central Domain of Spring Viremia of Carp Virus. Journal of Virology, 2020, 94, .	1.5	10
61	Assembly Pathway Selection of Designer Self-Assembling Peptide and Fabrication of Hierarchical Scaffolds for Neural Regeneration. ACS Applied Materials & Interfaces, 2018, 10, 26128-26141.	4.0	9
62	Biochemical and structural characterization of the BioZ enzyme engaged in bacterial biotin synthesis pathway. Nature Communications, 2021, 12, 2056.	5.8	9
63	Crystal structure of a novel nonâ€Pfam protein AF1514 from Archeoglobus fulgidus DSM 4304 solved by Sâ€SAD using a Cr Xâ€ray source. Proteins: Structure, Function and Bioinformatics, 2008, 71, 2109-2113.	1.5	8
64	The microbiomic and environmental analysis of sediments in the Indo-Pacific humpback dolphin (Sousa) Tj ETQq0 0 0 rgBT /Overlock 10 2019, 26, 6957-6970.	2.7	8
65	Rifapentine is an entry and replication inhibitor against yellow fever virus both in vitro and in vivo. Emerging Microbes and Infections, 2022, 11, 873-884.	3.0	8
66	Crystal structure solution of a ParBâ€like nuclease at atomic resolution. Proteins: Structure, Function and Bioinformatics, 2008, 70, 263-267.	1.5	7
67	Structural Insights into gp16 ATPase in the Bacteriophage Ï•29 DNA Packaging Motor. Biochemistry, 2021, 60, 886-897.	1.2	7
68	Legionella pneumophila temporally regulates the activity of ADP/ATP translocases by reversible ADPâ€ribosylation. , 2022, 1, 51-65.		7
69	Structural and biochemical analyses of the tetrameric cell binding domain of Lys170 from enterococcal phage F170/08. European Biophysics Journal, 2021, 50, 721-729.	1.2	6
70	Metabolome and Whole-Transcriptome Analyses Reveal the Molecular Mechanisms Underlying Hypoglycemic Nutrient Metabolites Biosynthesis in Cyclocarya paliurus Leaves During Different Harvest Stages. Frontiers in Nutrition, 2022, 9, 851569.	1.6	6
71	Molecular Basis of BioJ, a Unique Gatekeeper in Bacterial Biotin Synthesis. IScience, 2019, 19, 796-808.	1.9	5
72	Recombinant expression, purification and bioactivity characterization of extracellular domain of human tumor necrosis factor receptor 1. Protein Expression and Purification, 2019, 155, 21-26.	0.6	5

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73	Structural View of a Non Pfam Singleton and Crystal Packing Analysis. PLoS ONE, 2012, 7, e31673.	1.1	2
74	Crystal structure of hGEF-H1 PH domain provides insight into incapability in phosphoinositide binding. Biochemical and Biophysical Research Communications, 2016, 471, 621-627.	1.0	2
75	Structureâ€function analysis of human lâ€prostaglandin D synthase bound with fatty acid molecules. FASEB Journal, 2010, 24, 4668-4677.	0.2	1
76	Ubiquitin: there's no quitting. Science Bulletin, 2020, 65, 1327-1329.	4.3	0
77	Title is missing!. , 2020, 18, e3000654.		0
78	Title is missing!. , 2020, 18, e3000654.		0
79	Title is missing!. , 2020, 18, e3000654.		0
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