

Yigong Shi

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

9,994
citations

53794

45
h-index

85541

71
g-index

147
all docs

147
docs citations

147
times ranked

13409
citing authors

#	ARTICLE	IF	CITATIONS
1	Serine/Threonine Phosphatases: Mechanism through Structure. <i>Cell</i> , 2009, 139, 468-484.	28.9	1,292
2	Molecular Architecture of the SARS-CoV-2 Virus. <i>Cell</i> , 2020, 183, 730-738.e13.	28.9	793
3	Sampling the conformational space of the catalytic subunit of human $\hat{\beta}$ -secretase. <i>ELife</i> , 2015, 4, .	6.0	556
4	An atomic structure of human $\hat{\beta}$ -secretase. <i>Nature</i> , 2015, 525, 212-217.	27.8	490
5	Structure of the rabbit ryanodine receptor RyR1 at near-atomic resolution. <i>Nature</i> , 2015, 517, 50-55.	27.8	391
6	Three-dimensional structure of human $\hat{\beta}$ -secretase. <i>Nature</i> , 2014, 512, 166-170.	27.8	317
7	Structure of a yeast spliceosome at 3.6-angstrom resolution. <i>Science</i> , 2015, 349, 1182-1191.	12.6	314
8	Mechanistic insights into precursor messenger RNA splicing by the spliceosome. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 655-670.	37.0	314
9	Analysis of 138 pathogenic mutations in presenilin-1 on the in vitro production of A $\hat{\beta}$ ²⁴² and A $\hat{\beta}$ ²⁴⁰ peptides by $\hat{\beta}$ -secretase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E476-E485.	7.1	277
10	Common Folds and Transport Mechanisms of Secondary Active Transporters. <i>Annual Review of Biophysics</i> , 2013, 42, 51-72.	10.0	266
11	Structure of a yeast activated spliceosome at 3.5 Å... resolution. <i>Science</i> , 2016, 353, 904-911.	12.6	246
12	Recognition of the amyloid precursor protein by human $\hat{\beta}$ -secretase. <i>Science</i> , 2019, 363, .	12.6	229
13	A Glimpse of Structural Biology through X-Ray Crystallography. <i>Cell</i> , 2014, 159, 995-1014.	28.9	227
14	An Atomic Structure of the Human Spliceosome. <i>Cell</i> , 2017, 169, 918-929.e14.	28.9	215
15	Atomic structure of the apoptosome: mechanism of cytochrome <i>c</i> and dATP-mediated activation of Apaf-1. <i>Genes and Development</i> , 2015, 29, 2349-2361.	5.9	201
16	Structural basis of Notch recognition by human $\hat{\beta}$ -secretase. <i>Nature</i> , 2019, 565, 192-197.	27.8	194
17	An atomic structure of the human 26S proteasome. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 778-785.	8.2	189
18	Structure of the human PKD1-PKD2 complex. <i>Science</i> , 2018, 361, .	12.6	173

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19	Structure of a yeast catalytic step I spliceosome at 3.4 Å... resolution. <i>Science</i> , 2016, 353, 895-904.	12.6	172
20	Structural basis of pre-mRNA splicing. <i>Science</i> , 2015, 349, 1191-1198.	12.6	170
21	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020, 594, 3767-3775.	2.8	169
22	Structure of the human activated spliceosome in three conformational states. <i>Cell Research</i> , 2018, 28, 307-322.	12.0	163
23	The 3.8 Å... structure of the U4/U6.U5 tri-snRNP: Insights into spliceosome assembly and catalysis. <i>Science</i> , 2016, 351, 466-475.	12.6	142
24	Structure of a yeast step II catalytically activated spliceosome. <i>Science</i> , 2017, 355, 149-155.	12.6	131
25	Structure of a human catalytic step I spliceosome. <i>Science</i> , 2018, 359, 537-545.	12.6	118
26	Molecular Mechanisms of pre-mRNA Splicing through Structural Biology of the Spliceosome. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019, 11, a032409.	5.5	117
27	Structural basis of $\hat{\text{I}}^3$ -secretase inhibition and modulation by small molecule drugs. <i>Cell</i> , 2021, 184, 521-533.e14.	28.9	100
28	Structural basis of human $\hat{\text{I}}^3$ -secretase assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6003-6008.	7.1	97
29	Mechanistic insights into caspase-9 activation by the structure of the apoptosome holoenzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1542-1547.	7.1	95
30	TIPE3 Is the Transfer Protein of Lipid Second Messengers that Promote Cancer. <i>Cancer Cell</i> , 2014, 26, 465-478.	16.8	93
31	Structures of the human pre-catalytic spliceosome and its precursor spliceosome. <i>Cell Research</i> , 2018, 28, 1129-1140.	12.0	85
32	Molecular determinants of caspase-9 activation by the Apaf-1 apoptosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16254-16261.	7.1	81
33	The Spliceosome: A Protein-Directed Metalloribozyme. <i>Journal of Molecular Biology</i> , 2017, 429, 2640-2653.	4.2	81
34	Crystal structures of the Lsm complex bound to the 3' end sequence of U6 small nuclear RNA. <i>Nature</i> , 2014, 506, 116-120.	27.8	77
35	Structure of an Intron Lariat Spliceosome from <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2017, 171, 120-132.e12.	28.9	77
36	Structures of the fully assembled <i>Saccharomyces cerevisiae</i> spliceosome before activation. <i>Science</i> , 2018, 360, 1423-1429.	12.6	77

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37	Structure of the Post-catalytic Spliceosome from <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2017, 171, 1589-1598.e8.	28.9	76
38	Structure of an endogenous yeast 26S proteasome reveals two major conformational states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2642-2647.	7.1	75
39	Structures of the human spliceosomes before and after release of the ligated exon. <i>Cell Research</i> , 2019, 29, 274-285.	12.0	74
40	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. <i>Molecular Cell</i> , 2020, 77, 927-929.	9.7	71
41	Structures of the Catalytically Activated Yeast Spliceosome Reveal the Mechanism of Branching. <i>Cell</i> , 2019, 177, 339-351.e13.	28.9	64
42	How Is Precursor Messenger RNA Spliced by the Spliceosome?. <i>Annual Review of Biochemistry</i> , 2020, 89, 333-358.	11.1	64
43	Crystal structure of the $\hat{\text{I}}^{\beta}$ -secretase component nicastrin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13349-13354.	7.1	59
44	Structure of the apoptosome: mechanistic insights into activation of an initiator caspase from <i>Drosophila</i> . <i>Genes and Development</i> , 2015, 29, 277-287.	5.9	55
45	Crystal structure of human lysyl oxidase-like 2 (hLOXL2) in a precursor state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3828-3833.	7.1	55
46	Molecular architecture of the luminal ring of the <i>Xenopus laevis</i> nuclear pore complex. <i>Cell Research</i> , 2020, 30, 532-540.	12.0	51
47	Structure of the cytoplasmic ring of the <i>Xenopus laevis</i> nuclear pore complex by cryo-electron microscopy single particle analysis. <i>Cell Research</i> , 2020, 30, 520-531.	12.0	51
48	Assembly and structure of protein phosphatase 2A. <i>Science in China Series C: Life Sciences</i> , 2009, 52, 135-146.	1.3	46
49	Molecular choreography of pre-mRNA splicing by the spliceosome. <i>Current Opinion in Structural Biology</i> , 2019, 59, 124-133.	5.7	45
50	Specific electromagnetic radiation in the wireless signal range increases wakefulness in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	44
51	Structure of the cytoplasmic ring of the <i>Xenopus laevis</i> nuclear pore complex. <i>Science</i> , 2022, 376, .	12.6	44
52	Structural biology of intramembrane proteases: mechanistic insights from rhomboid and S2P to $\hat{\text{I}}^{\beta}$ -secretase. <i>Current Opinion in Structural Biology</i> , 2016, 37, 97-107.	5.7	43
53	Structure of the activated human minor spliceosome. <i>Science</i> , 2021, 371, .	12.6	43
54	Structural and biochemical analysis of Bcl-2 interaction with the hepatitis B virus protein HBx. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2074-2079.	7.1	42

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55	Dominant negative effect of the loss-of-function $\hat{\Gamma}^3$ -secretase mutants on the wild-type enzyme through heterooligomerization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12731-12736.	7.1	41
56	Mechanism of spliceosome remodeling by the ATPase/helicase Prp2 and its coactivator Spp2. Science, 2021, 371, .	12.6	35
57	Functional characterization of human equilibrative nucleoside transporter 1. Protein and Cell, 2017, 8, 284-295.	11.0	27
58	Quenching Dynamics of Ultraviolet-Light Perception by UVR8 Photoreceptor. Journal of Physical Chemistry Letters, 2014, 5, 69-72.	4.6	24
59	Molecular mechanism of pH-dependent substrate transport by an arginine-aggmatine antiporter. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12734-12739.	7.1	21
60	Crystal structure and biochemical analysis of the heptameric Lsm1-7 complex. Cell Research, 2014, 24, 497-500.	12.0	20
61	Cryo-EM structures of human $\hat{\Gamma}^3$ -secretase. Current Opinion in Structural Biology, 2017, 46, 55-64.	5.7	20
62	Macromolecular complex in recognition and proteolysis of amyloid precursor protein in Alzheimer's disease. Current Opinion in Structural Biology, 2020, 61, 1-8.	5.7	15
63	Mechanism of exon ligation by human spliceosome. Molecular Cell, 2022, 82, 2769-2778.e4.	9.7	14
64	Bax inhibitor 1 is a $\hat{\Gamma}^3$ -secretase-independent presenilin-binding protein. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 141-147.	7.1	12
65	Structural basis for Ca ²⁺ activation of the heteromeric PKD1L3/PKD2L1 channel. Nature Communications, 2021, 12, 4871.	12.8	10
66	Pyridoxamine is a substrate of the energy-coupling factor transporter HmpT. Cell Discovery, 2015, 1, 15014.	6.7	6
67	Modulation of amyloid precursor protein cleavage by $\hat{\Gamma}^3$ -secretase activating protein through phase separation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122292119.	7.1	5
68	A glimpse of life science research at Tsinghua. Science China Life Sciences, 2014, 57, 1-3.	4.9	4
69	Biological cryo-electron microscopy in China. Protein Science, 2017, 26, 16-31.	7.6	3
70	Ray Wu: united we prevail. Science in China Series C: Life Sciences, 2009, 52, 130-132.	1.3	2
71	The spirit of science. National Science Review, 2014, 1, 471-471.	9.5	1
72	Arnold J. Levine and my career development. Journal of Molecular Cell Biology, 2019, 11, 546-550.	3.3	0