

Yigong Shi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

6,887
citations

39
h-index

82
g-index

147
ext. papers

8,702
ext. citations

24.5
avg, IF

6.81
L-index

#	Paper	IF	Citations
70	Serine/threonine phosphatases: mechanism through structure. <i>Cell</i> , 2009 , 139, 468-84	56.2	1012
69	Sampling the conformational space of the catalytic subunit of human β secretase. <i>ELife</i> , 2015 , 4,	8.9	406
68	Molecular Architecture of the SARS-CoV-2 Virus. <i>Cell</i> , 2020 , 183, 730-738.e13	56.2	385
67	An atomic structure of human β secretase. <i>Nature</i> , 2015 , 525, 212-217	50.4	379
66	Structure of the rabbit ryanodine receptor RyR1 at near-atomic resolution. <i>Nature</i> , 2015 , 517, 50-55	50.4	322
65	Three-dimensional structure of human β secretase. <i>Nature</i> , 2014 , 512, 166-170	50.4	267
64	Structure of a yeast spliceosome at 3.6-angstrom resolution. <i>Science</i> , 2015 , 349, 1182-91	33.3	261
63	Common folds and transport mechanisms of secondary active transporters. <i>Annual Review of Biophysics</i> , 2013 , 42, 51-72	21.1	200
62	Structure of a yeast activated spliceosome at 3.5 Å resolution. <i>Science</i> , 2016 , 353, 904-11	33.3	193
61	Mechanistic insights into precursor messenger RNA splicing by the spliceosome. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 655-670	48.7	191
60	Analysis of 138 pathogenic mutations in presenilin-1 on the in vitro production of A β 2 and A β 0 peptides by β secretase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E476-E485	11.5	173
59	A glimpse of structural biology through X-ray crystallography. <i>Cell</i> , 2014 , 159, 995-1014	56.2	158
58	Structure of a yeast catalytic step I spliceosome at 3.4 Å resolution. <i>Science</i> , 2016 , 353, 895-904	33.3	146
57	Atomic structure of the apoptosome: mechanism of cytochrome c- and dATP-mediated activation of Apaf-1. <i>Genes and Development</i> , 2015 , 29, 2349-61	12.6	142
56	An atomic structure of the human 26S proteasome. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 778-85	17.6	142
55	Recognition of the amyloid precursor protein by human β secretase. <i>Science</i> , 2019 , 363,	33.3	140
54	Structural basis of pre-mRNA splicing. <i>Science</i> , 2015 , 349, 1191-8	33.3	139

53	An Atomic Structure of the Human Spliceosome. <i>Cell</i> , 2017 , 169, 918-929.e14	56.2	138
52	The 3.8 Å structure of the U4/U6.U5 tri-snRNP: Insights into spliceosome assembly and catalysis. <i>Science</i> , 2016 , 351, 466-75	33.3	127
51	Structural basis of Notch recognition by human E-cadherin. <i>Nature</i> , 2019 , 565, 192-197	50.4	113
50	Structure of a yeast step II catalytically activated spliceosome. <i>Science</i> , 2017 , 355, 149-155	33.3	105
49	Structure of the human activated spliceosome in three conformational states. <i>Cell Research</i> , 2018 , 28, 307-322	24.7	104
48	Structure of the human PKD1-PKD2 complex. <i>Science</i> , 2018 , 361,	33.3	93
47	Structural basis of human E-cadherin assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6003-8	11.5	88
46	Structure of a human catalytic step I spliceosome. <i>Science</i> , 2018 , 359, 537-545	33.3	75
45	Crystal structures of the Lsm complex bound to the 3' end sequence of U6 small nuclear RNA. <i>Nature</i> , 2014 , 506, 116-20	50.4	70
44	TIPE3 is the transfer protein of lipid second messengers that promote cancer. <i>Cancer Cell</i> , 2014 , 26, 465-473	24.3	69
43	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	11.5	68
42	Molecular Mechanisms of pre-mRNA Splicing through Structural Biology of the Spliceosome. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019 , 11,	10.2	67
41	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020 , 594, 3767-3775	3.8	66
40	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, 16254-61	11.5	63
39	The Spliceosome: A Protein-Directed Metalloribozyme. <i>Journal of Molecular Biology</i> , 2017 , 429, 2640-2655	53.5	60
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, 2642-7	11.5	59
37	Structure of the Post-catalytic Spliceosome from <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2017 , 171, 1589-1598.e8	56.2	56
36	Structures of the fully assembled spliceosome before activation. <i>Science</i> , 2018 , 360, 1423-1429	33.3	54

- 35 Structure of an Intron Lariat Spliceosome from *Saccharomyces cerevisiae*. *Cell*, **2017**, 171, 120-132.e12 56.2 51
- 34 Crystal structure of the β -secretase component nicastrin. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13349-54 11.5 50
- 33 Structures of the human pre-catalytic spliceosome and its precursor spliceosome. *Cell Research*, **2018**, 28, 1129-1140 24.7 49
- 32 Structure of the apoptosome: mechanistic insights into activation of an initiator caspase from *Drosophila*. *Genes and Development*, **2015**, 29, 277-87 12.6 44
- 31 Structural basis of β -secretase inhibition and modulation by small molecule drugs. *Cell*, **2021**, 184, 521-533.e14 36.14 37
- 30 Crystal structure of human lysyl oxidase-like 2 (hLOXL2) in a precursor state. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3828-3833 11.5 36
- 29 Assembly and structure of protein phosphatase 2A. *Science in China Series C: Life Sciences*, **2009**, 52, 135-46 36
- 28 Structures of the Catalytically Activated Yeast Spliceosome Reveal the Mechanism of Branching. *Cell*, **2019**, 177, 339-351.e13 56.2 35
- 27 Structures of the human spliceosomes before and after release of the ligated exon. *Cell Research*, **2019**, 29, 274-285 24.7 35
- 26 Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. *Molecular Cell*, **2020**, 77, 927-929 17.6 35
- 25 Structural biology of intramembrane proteases: mechanistic insights from rhomboid and S2P to β -secretase. *Current Opinion in Structural Biology*, **2016**, 37, 97-107 8.1 32
- 24 Molecular architecture of the luminal ring of the *Xenopus laevis* nuclear pore complex. *Cell Research*, **2020**, 30, 532-540 24.7 31
- 23 Structural and biochemical analysis of Bcl-2 interaction with the hepatitis B virus protein HBx. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2074-9 11.5 30
- 22 Structure of the cytoplasmic ring of the *Xenopus laevis* nuclear pore complex by cryo-electron microscopy single particle analysis. *Cell Research*, **2020**, 30, 520-531 24.7 29
- 21 Dominant negative effect of the loss-of-function β -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 11.5 26
- 20 Quenching Dynamics of Ultraviolet-Light Perception by UVR8 Photoreceptor. *Journal of Physical Chemistry Letters*, **2014**, 5, 69-72 6.4 24
- 19 Functional characterization of human equilibrative nucleoside transporter 1. *Protein and Cell*, **2017**, 8, 284-295 7.2 22
- 18 Molecular choreography of pre-mRNA splicing by the spliceosome. *Current Opinion in Structural Biology*, **2019**, 59, 124-133 8.1 22

17	How Is Precursor Messenger RNA Spliced by the Spliceosome?. <i>Annual Review of Biochemistry</i> , 2020 , 89, 333-358	29.1	18
16	Cryo-EM structures of human β secretase. <i>Current Opinion in Structural Biology</i> , 2017 , 46, 55-64	8.1	16
15	Crystal structure and biochemical analysis of the heptameric Lsm1-7 complex. <i>Cell Research</i> , 2014 , 24, 497-500	24.7	16
14	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,	11.5	15
13	Molecular mechanism of pH-dependent substrate transport by an arginine-agmatine antiporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12734-9	11.5	12
12	Macromolecular complex in recognition and proteolysis of amyloid precursor protein in Alzheimer's disease. <i>Current Opinion in Structural Biology</i> , 2020 , 61, 1-8	8.1	11
11	Structure of the activated human minor spliceosome. <i>Science</i> , 2021 , 371,	33.3	8
10	Bax inhibitor 1 is a β secretase-independent presenilin-binding protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 141-147	11.5	8
9	Mechanism of spliceosome remodeling by the ATPase/helicase Prp2 and its coactivator Spp2. <i>Science</i> , 2021 , 371,	33.3	8
8	Pyridoxamine is a substrate of the energy-coupling factor transporter HmpT. <i>Cell Discovery</i> , 2015 , 1, 15014	22.3	4
7	Biological cryo-electron microscopy in China. <i>Protein Science</i> , 2017 , 26, 16-31	6.3	3
6	Structural basis for Ca activation of the heteromeric PKD1L3/PKD2L1 channel. <i>Nature Communications</i> , 2021 , 12, 4871	17.4	2
5	The spirit of science. <i>National Science Review</i> , 2014 , 1, 471-471	10.8	1
4	Ray Wu: united we prevail. <i>Science in China Series C: Life Sciences</i> , 2009 , 52, 130-2		1
3	Structures of the Catalytically Activated Yeast Spliceosome Reveal the Mechanism of Branching		1
2	Modulation of amyloid precursor protein cleavage by β secretase activating protein through phase separation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2122292119	11.5	1
1	Arnold J. Levine and my career development. <i>Journal of Molecular Cell Biology</i> , 2019 , 11, 546-550	6.3	