

Yigong Shi

List of Publications by Year in Descending Order

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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	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
69	Structure of the activated human minor spliceosome. <i>Science</i> , 2021 , 371,	33.3	8
68	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
67	Mechanism of spliceosome remodeling by the ATPase/helicase Prp2 and its coactivator Spp2. <i>Science</i> , 2021 , 371,	33.3	8
66	Structural basis for Ca activation of the heteromeric PKD1L3/PKD2L1 channel. <i>Nature Communications</i> , 2021 , 12, 4871	17.4	2
65	Structural basis of β secretase inhibition and modulation by small molecule drugs. <i>Cell</i> , 2021 , 184, 521-533.e14	36.14	37
64	Molecular architecture of the luminal ring of the <i>Xenopus laevis</i> nuclear pore complex. <i>Cell Research</i> , 2020 , 30, 532-540	24.7	31
63	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	24.7	29
62	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. <i>Molecular Cell</i> , 2020 , 77, 927-929	17.6	35
61	How Is Precursor Messenger RNA Spliced by the Spliceosome?. <i>Annual Review of Biochemistry</i> , 2020 , 89, 333-358	29.1	18
60	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020 , 594, 3767-3775	3.8	66
59	Molecular Architecture of the SARS-CoV-2 Virus. <i>Cell</i> , 2020 , 183, 730-738.e13	56.2	385
58	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
57	Molecular choreography of pre-mRNA splicing by the spliceosome. <i>Current Opinion in Structural Biology</i> , 2019 , 59, 124-133	8.1	22
56	Structures of the Catalytically Activated Yeast Spliceosome Reveal the Mechanism of Branching. <i>Cell</i> , 2019 , 177, 339-351.e13	56.2	35
55	Structures of the human spliceosomes before and after release of the ligated exon. <i>Cell Research</i> , 2019 , 29, 274-285	24.7	35
54	Arnold J. Levine and my career development. <i>Journal of Molecular Cell Biology</i> , 2019 , 11, 546-550	6.3	

53	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
52	Structural basis of Notch recognition by human β -secretase. <i>Nature</i> , 2019 , 565, 192-197	50.4	113
51	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
50	Recognition of the amyloid precursor protein by human β -secretase. <i>Science</i> , 2019 , 363,	33.3	140
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 a human catalytic step I spliceosome. <i>Science</i> , 2018 , 359, 537-545	33.3	75
47	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	11.5	36
46	Structure of the human PKD1-PKD2 complex. <i>Science</i> , 2018 , 361,	33.3	93
45	Structures of the human pre-catalytic spliceosome and its precursor spliceosome. <i>Cell Research</i> , 2018 , 28, 1129-1140	24.7	49
44	Structures of the fully assembled spliceosome before activation. <i>Science</i> , 2018 , 360, 1423-1429	33.3	54
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	An Atomic Structure of the Human Spliceosome. <i>Cell</i> , 2017 , 169, 918-929.e14	56.2	138
41	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
40	Functional characterization of human equilibrative nucleoside transporter 1. <i>Protein and Cell</i> , 2017 , 8, 284-295	7.2	22
39	Structure of a yeast step II catalytically activated spliceosome. <i>Science</i> , 2017 , 355, 149-155	33.3	105
38	Mechanistic insights into precursor messenger RNA splicing by the spliceosome. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 655-670	48.7	191
37	Dominant negative effect of the loss-of-function β -secretase mutants on the wild-type enzyme through heterooligomerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12731-12736	11.5	26
36	Structure of an Intron Lariat Spliceosome from <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2017 , 171, 120-132.e12	56.2	51

35	The Spliceosome: A Protein-Directed Metalloribozyme. <i>Journal of Molecular Biology</i> , 2017 , 429, 2640-2655	5.3	60
34	Cryo-EM structures of human β secretase. <i>Current Opinion in Structural Biology</i> , 2017 , 46, 55-64	8.1	16
33	Structure of the Post-catalytic Spliceosome from <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2017 , 171, 1589-1598.e8	6.2	56
32	Biological cryo-electron microscopy in China. <i>Protein Science</i> , 2017 , 26, 16-31	6.3	3
31	Structure of a yeast activated spliceosome at 3.5 Å resolution. <i>Science</i> , 2016 , 353, 904-11	33.3	193
30	Structure of a yeast catalytic step I spliceosome at 3.4 Å resolution. <i>Science</i> , 2016 , 353, 895-904	33.3	146
29	An atomic structure of the human 26S proteasome. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 778-85	17.6	142
28	Structural biology of intramembrane proteases: mechanistic insights from rhomboid and S2P to β secretase. <i>Current Opinion in Structural Biology</i> , 2016 , 37, 97-107	8.1	32
27	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, 2074-9	11.5	30
26	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
25	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
24	Structural basis of human β secretase assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6003-8	11.5	88
23	Structure of a yeast spliceosome at 3.6-angstrom resolution. <i>Science</i> , 2015 , 349, 1182-91	33.3	261
22	Structural basis of pre-mRNA splicing. <i>Science</i> , 2015 , 349, 1191-8	33.3	139
21	An atomic structure of human β secretase. <i>Nature</i> , 2015 , 525, 212-217	50.4	379
20	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
19	Structure of the rabbit ryanodine receptor RyR1 at near-atomic resolution. <i>Nature</i> , 2015 , 517, 50-55	50.4	322
18	Pyridoxamine is a substrate of the energy-coupling factor transporter HmpT. <i>Cell Discovery</i> , 2015 , 1, 15014	22.3	4

17	Sampling the conformational space of the catalytic subunit of human β secretase. <i>ELife</i> , 2015 , 4,	8.9	406
16	Structure of the apoptosome: mechanistic insights into activation of an initiator caspase from <i>Drosophila</i> . <i>Genes and Development</i> , 2015 , 29, 277-87	12.6	44
15	Crystal structures of the Lsm complex bound to the 3Tend sequence of U6 small nuclear RNA. <i>Nature</i> , 2014 , 506, 116-20	50.4	70
14	A glimpse of structural biology through X-ray crystallography. <i>Cell</i> , 2014 , 159, 995-1014	56.2	158
13	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
12	TIPE3 is the transfer protein of lipid second messengers that promote cancer. <i>Cancer Cell</i> , 2014 , 26, 465-473	14.3	69
11	Three-dimensional structure of human β secretase. <i>Nature</i> , 2014 , 512, 166-170	50.4	267
10	Crystal structure of the β secretase component nicastrin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13349-54	11.5	50
9	Quenching Dynamics of Ultraviolet-Light Perception by UVR8 Photoreceptor. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 69-72	6.4	24
8	Molecular mechanism of pH-dependent substrate transport by an arginine-arginine antiporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12734-9	11.5	12
7	Crystal structure and biochemical analysis of the heptameric Lsm1-7 complex. <i>Cell Research</i> , 2014 , 24, 497-500	24.7	16
6	The spirit of science. <i>National Science Review</i> , 2014 , 1, 471-471	10.8	1
5	Common folds and transport mechanisms of secondary active transporters. <i>Annual Review of Biophysics</i> , 2013 , 42, 51-72	21.1	200
4	Assembly and structure of protein phosphatase 2A. <i>Science in China Series C: Life Sciences</i> , 2009 , 52, 135-46		36
3	Ray Wu: united we prevail. <i>Science in China Series C: Life Sciences</i> , 2009 , 52, 130-2		1
2	Serine/threonine phosphatases: mechanism through structure. <i>Cell</i> , 2009 , 139, 468-84	56.2	1012
1	Structures of the Catalytically Activated Yeast Spliceosome Reveal the Mechanism of Branching		1