Zhenfeng Liu

List of Publications by Year
in descending order

36 papers	4,302 citations	331670 21 h-index	377865 34 g-index
43 all docs	43 docs citations	43 times ranked	3763 citing authors

#	Article	IF	Citations
1	Crystal structure of spinach major light-harvesting complex at 2.72â€‰Ã… resolution. Nature, 2004, 428, 287-292.	27.8	1,589
2	Molecular basis of photoprotection and control of photosynthetic light-harvesting. Nature, 2005, 436, 134-137.	27.8	569
3	Structure of spinach photosystem IIâ€“LHCII supercomplex at 3.2â€‰Ã… resolution. Nature, 2016, 534, 69-74.	27.8	469
4	Structure and assembly mechanism of plant C ₂ S ₂ M ₂ -type PSII-LHCII supercomplex. Science, 2017, 357, 815-820.	12.6	291
5	Structure of the maize photosystem I supercomplex with light-harvesting complexes I and II. Science, 2018, 360, 1109-1113.	12.6	159
6	Antenna arrangement and energy transfer pathways of a green algal photosystem-Iâ€“LHCI supercomplex. Nature Plants, 2019, 5, 273-281.	9.3	127
7	Crystal structures of the PsbS protein essential for photoprotection in plants. Nature Structural and Molecular Biology, 2015, 22, 729-735.	8.2	125
8	Structural insight into light harvesting for photosystem II in green algae. Nature Plants, 2019, 5, 1320-1330.	9.3	112
9	Structure of a tetrameric MscL in an expanded intermediate state. Nature, 2009, 461, 120-124.	27.8	105
10	Architecture and function of plant light-harvesting complexes II. Current Opinion in Structural Biology, 2013, 23, 515-525.	5.7	77
11	Structural analysis and comparison of light-harvesting complexes I and II. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148038.	1.0	66
12	Two lutein molecules in LHCII have different conformations and functions: Insights into the molecular mechanism of thermal dissipation in plants. Biochemical and Biophysical Research Communications, 2007, 355, 457-463.	2.1	62
13	Structure and mechanism of an intramembrane liponucleotide synthetase central for phospholipid biosynthesis. Nature Communications, 2014, 5, 4244.	12.8	51
14	Structural basis for energy and electron transfer of the photosystem Iâ€“IsiAâ€“flavodoxin supercomplex. Nature Plants, 2020, 6, 167-176.	9.3	48
15	Structure, assembly and energy transfer of plant photosystem II supercomplex. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 633-644.	1.0	46
16	Structural basis of LhcbM5-mediated state transitions in green algae. Nature Plants, 2021, 7, 1119-1131.	9.3	43
17	Mechanical coupling of the multiple structural elements of the large-conductance mechanosensitive channel during expansion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10726-10731.	7.1	41
18	Pore architecture of TRIC channels and insights into their gating mechanism. Nature, 2016, 538, 537-541.	27.8	41

#	Article	IF	Citations
19	Structural Mechanism Underlying the Specific Recognition between the Arabidopsis State-Transition Phosphatase TAP38/PPH1 and Phosphorylated Light-Harvesting Complex Protein Lhcb1. Plant Cell, 2015, 27, 1113-1127.	6.6	33
20	Structural roles of lipid molecules in the assembly of plant PSIIâˆ'LHCII supercomplex. Biophysics Reports, 2018, 4, 189-203.	0.8	26
21	From membrane tension to channel gating: A principal energy transfer mechanism for mechanosensitive channels. Protein Science, 2016, 25, 1954-1964.	7.6	25
22	Thermodynamics of voltage-gated ion channels. Biophysics Reports, 2018, 4, 300-319.	0.8	22
23	Phospholipid translocation captured in a bifunctional membrane protein MprF. Nature Communications, 2021, 12, 2927.	12.8	21
24	TMEM120A contains a specific coenzyme A-binding site and might not mediate poking- or stretch-induced channel activities in cells. ELife, 2021, 10, .	6.0	20
25	Supramolecular assembly of chloroplast NADH dehydrogenase-like complex with photosystem I from Arabidopsis thaliana. Molecular Plant, 2022, 15, 454-467.	8.3	19
26	Structural Insights into Substrate Selectivity, Catalytic Mechanism, and Redox Regulation of Rice Photosystem II Core Phosphatase. Molecular Plant, 2019, 12, 86-98.	8.3	18
27	Structures of the Mitochondrial CDP-DAG Synthase Tam41 Suggest a Potential Lipid Substrate Pathway from Membrane to the Active Site. Structure, 2019, 27, 1258-1269.e4.	3.3	15
28	Assembly of eukaryotic photosystem II with diverse light-harvesting antennas. Current Opinion in Structural Biology, 2020, 63, 49-57.	5.7	14
29	Structure of the catalytic domain of a state transition kinase homolog from Micromonas algae. Protein and Cell, 2013, 4, 607-619.	11.0	11
30	Cryoâ€electron microscopy structure of <scp>CLHM1</scp> ion channel from <scp><i>Caenorhabditis elegans</i></scp>. Protein Science, 2020, 29, 1803-1815.	7.6	11
31	Plant and Algal PSIIâ€"LHCII Supercomplexes: Structure, Evolution and Energy Transfer. Plant and Cell Physiology, 2021, 62, 1108-1120.	3.1	11
32	The phosphatidylglycerol phosphate synthase PgsA utilizes a trifurcated amphipathic cavity for catalysis at the membrane-cytosol interface. Current Research in Structural Biology, 2021, 3, 312-323.	2.2	11
33	A reported archaeal mechanosensitive channel is a structural homolog of MarRâ€like transcriptional regulators. Protein Science, 2010, 19, 808-814.	7.6	7
34	Ion- and water-binding sites inside an occluded hourglass pore of a trimeric intracellular cation (TRIC) channel. BMC Biology, 2017, 15, 31.	3.8	4
35	Three-Dimensional Structure of Spinach Major Light-Harvesting Complex. Nihon Kessho Gakkaishi, 2004, 46, 19-19.	0.0	0
36	Crystallization Methods of Membrane Proteins: Practical Aspects of Crystallizing Plant Light-Harvesting Complexes. Advances in Photosynthesis and Respiration, 2008, , 77-96.	1.0	0