Fengbin Wang

List of Publications by Year
in descending order

46	1,700	22	38
papers	citations	h-index	g-index
		304743	315739

48	48	48	2198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of Microbial Nanowires Reveals Stacked Hemes that Transport Electrons over Micrometers. Cell, 2019, 177, 361-369.e10.	28.9	391
2	A structural model of flagellar filament switching across multiple bacterial species. Nature Communications, 2017, 8, 960.	12.8	90
3	Cryoelectron Microscopy Reconstructions of the Pseudomonas aeruginosa and Neisseria gonorrhoeae Type IV Pili at Sub-nanometer Resolution. Structure, 2017, 25, 1423-1435.e4.	3.3	87
4	Functional role of the type 1 pilus rod structure in mediating host-pathogen interactions. ELife, 2018, 7, .	6.0	70
5	Artificial Intracellular Filaments. Cell Reports Physical Science, 2020, 1, 100085.	5.6	56
6	Structural basis for high-affinity actin binding revealed by a Î²-III-spectrin SCA5 missense mutation. Nature Communications, 2017, 8, 1350.	12.8	53
7	Cryo-EM structure of an extracellular Geobacter OmcE cytochrome filament reveals tetrahaem packing. Nature Microbiology, 2022, 7, 1291-1300.	13.3	47
8	An extensively glycosylated archaeal pilus survives extreme conditions. Nature Microbiology, 2019, 4, 1401-1410.	13.3	46
9	Reader domain specificity and lysine demethylase-4 family function. Nature Communications, 2016, 7, 13387.	12.8	45
10	TRMT6/61A-dependent base methylation of tRNA-derived fragments regulates gene-silencing activity and the unfolded protein response in bladder cancer. Nature Communications, 2022, 13, 2165.	12.8	43
11	Mating pair stabilization mediates bacterial conjugation species specificity. Nature Microbiology, 2022, 7, 1016-1027.	13.3	43
12	Refined Cryo-EM Structure of the T4 Tail Tube: Exploring the Lowest Dose Limit. Structure, 2017, 25, 1436-1441.e2.	3.3	40
13	Understanding molecular recognition of promiscuity of thermophilic methionine adenosyltransferase s<scp>MAT</scp> from <i>SulfolobusÂsolfataricus</i>. FEBS Journal, 2014, 281, 4224-4239.	4.7	36
14	Functional AdoMet Isosteres Resistant to Classical AdoMet Degradation Pathways. ACS Chemical Biology, 2016, 11, 2484-2491.	3.4	36
15	Deterministic chaos in the self-assembly of Î² sheet nanotubes from an amphipathic oligopeptide. Matter, 2021, 4, 3217-3231.	10.0	36
16	Structure and assembly of archaeal viruses. Advances in Virus Research, 2020, 108, 127-164.	2.1	35
17	Structural analysis of cross Î±-helical nanotubes provides insight into the designability of filamentous peptide nanomaterials. Nature Communications, 2021, 12, 407.	12.8	35
18	Cryo-EM of Helical Polymers. Chemical Reviews, 2022, 122, 14055-14065.	47.7	33

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19	Ambidextrous helical nanotubes from self-assembly of designed helical hairpin motifs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14456-14464.	7.1	32
20	Atomic structure of the <i>Campylobacter jejuni</i> flagellar filament reveals how Îµ Proteobacteria escaped Toll-like receptor 5 surveillance. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16985-16991.	7.1	30
21	Structures of filamentous viruses infecting hyperthermophilic archaea explain DNA stabilization in extreme environments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19643-19652.	7.1	29
22	Enzyme Responsive Rigid-Rod Aromatics Target â€œUndruggableâ€•Phosphatases to Kill Cancer Cells in a Mimetic Bone Microenvironment. Journal of the American Chemical Society, 2022, 144, 13055-13059.	13.7	28
23	The dual role of ubiquitin-like protein Urm1 as a protein modifier and sulfur carrier. Protein and Cell, 2011, 2, 612-619.	11.0	25
24	The structure of helical lipoprotein lipase reveals an unexpected twist in lipase storage. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10254-10264.	7.1	25
25	Crystal structure of SsfS6, the putative <i>C</i>â€glycosyltransferase involved in SF2575 biosynthesis. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1277-1282.	2.6	24
26	Structure-Guided Functional Characterization of Enediyne Self-Sacrifice Resistance Proteins, CalU16 and CalU19. ACS Chemical Biology, 2014, 9, 2347-2358.	3.4	24
27	Structural conservation in a membrane-enveloped filamentous virus infecting a hyperthermophilic acidophile. Nature Communications, 2018, 9, 3360.	12.8	24
28	The structures of two archaeal type IV pili illuminate evolutionary relationships. Nature Communications, 2020, 11, 3424.	12.8	24
29	Spindle-shaped archaeal viruses evolved from rod-shaped ancestors to package a larger genome. Cell, 2022, 185, 1297-1307.e11.	28.9	24
30	A packing for A-form DNA in an icosahedral virus. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22591-22597.	7.1	23
31	<i>Adnaviria</i> : a New Realm for Archaeal Filamentous Viruses with Linear A-Form Double-Stranded DNA Genomes. Journal of Virology, 2021, 95, e0067321.	3.4	22
32	Structural Determination of a Filamentous Chaperone to Fabricate Electronically Conductive Metalloprotein Nanowires. ACS Nano, 2020, 14, 6559-6569.	14.6	20
33	DeepTracer-ID: De novo protein identification from cryo-EM maps. Biophysical Journal, 2022, 121, 2840-2848.	0.5	20
34	Atomic structure of Lanreotide nanotubes revealed by cryo-EM. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	18
35	Structure of a filamentous virus uncovers familial ties within the archaeal virosphere. Virus Evolution, 2020, 6, veaa023.	4.9	13
36	Archaeal bundling pili of <i>Pyrobaculum calidifontis</i> reveal similarities between archaeal and bacterial biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	13

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37	Structural Basis for the Stereochemical Control of Amine Installation in Nucleotide Sugar Aminotransferases. ACS Chemical Biology, 2015, 10, 2048-2056.	3.4	12
38	Structural characterization of AtmS13, a putative sugar aminotransferase involved in indolocarbazole AT2433 aminopentose biosynthesis. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1547-1554.	2.6	10
39	Flagellin outer domain dimerization modulates motility in pathogenic and soil bacteria from viscous environments. Nature Communications, 2022, 13, 1422.	12.8	10
40	Cryo-EM is a powerful tool, but helical applications can have pitfalls. Soft Matter, 2021, 17, 3291-3293.	2.7	8
41	Crystal Structure of Thermostable p-nitrophenylphosphatase from Bacillus Stearothermophilus (Bs-TpNPPase). Protein and Peptide Letters, 2014, 21, 483-489.	0.9	5
42	Structural dynamics of a methionine Î^{3}-lyase for calicheamicin biosynthesis: Rotation of the conserved tyrosine stacking with pyridoxal phosphate. Structural Dynamics, 2016, 3, 034702.	2.3	4
43	Crystal Structure of the Tum1 Protein from the Yeast Saccharomyces cerevisiae. Protein and Peptide Letters, 2012, 19, 1139-1143.	0.9	3
44	Crystallization and preliminary X-ray analysis of the yeast tRNA-thiouridine modification protein 1 (Tum1p). Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 953-955.	0.7	2
45	Structure of a cupin protein Plu4264 from Photorhabdus luminescens subsp. laumondii TTO1 at 1.35 Ã… resolution. Proteins: Structure, Function and Bioinformatics, 2015, 83, 383-388.	2.6	2
46	Association of novel <i>TMEM67</i> variants with mild phenotypes of high gammaâ€glutamyl transpeptidase cholestasis and congenital hepatic fibrosis. Journal of Cellular Physiology, 0, , .	4.1	0