

Takayuki Kato

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,056
citations

516710

16
h-index

552781

26
g-index

39
all docs

39
docs citations

39
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	An infectivity-enhancing site on the SARS-CoV-2 spike protein targeted by antibodies. <i>Cell</i> , 2021, 184, 3452-3466.e18.	28.9	205
2	Common and distinct structural features of Salmonella injectisome and flagellar basal body. <i>Scientific Reports</i> , 2013, 3, 3369.	3.3	124
3	Specific Arrangement of \pm -Helical Coiled Coils in the Core Domain of the Bacterial Flagellar Hook for the Universal Joint Function. <i>Structure</i> , 2009, 17, 1485-1493.	3.3	73
4	Assembly and stoichiometry of the core structure of the bacterial flagellar type III export gate complex. <i>PLoS Biology</i> , 2017, 15, e2002281.	5.6	69
5	Identical folds used for distinct mechanical functions of the bacterial flagellar rod and hook. <i>Nature Communications</i> , 2017, 8, 14276.	12.8	60
6	Extraction of protein dynamics information from cryo-EM maps using deep learning. <i>Nature Machine Intelligence</i> , 2021, 3, 153-160.	16.0	57
7	CryoTEM with a Cold Field Emission Gun That Moves Structural Biology into a New Stage. <i>Microscopy and Microanalysis</i> , 2019, 25, 998-999.	0.4	45
8	Structural and Functional Comparison of Salmonella Flagellar Filaments Composed of FljB and FljC. <i>Biomolecules</i> , 2020, 10, 246.	4.0	35
9	Cryo-EM structure of the CENP-A nucleosome in complex with phosphorylated CENP-C. <i>EMBO Journal</i> , 2021, 40, e105671.	7.8	35
10	Native flagellar MS ring is formed by 34 subunits with 23-fold and 11-fold subsymmetries. <i>Nature Communications</i> , 2021, 12, 4223.	12.8	34
11	Structure of the molecular bushing of the bacterial flagellar motor. <i>Nature Communications</i> , 2021, 12, 4469.	12.8	33
12	Structure of the native supercoiled flagellar hook as a universal joint. <i>Nature Communications</i> , 2019, 10, 5295.	12.8	28
13	Periodicity in Attachment Organelle Revealed by Electron Cryotomography Suggests Conformational Changes in Gliding Mechanism of <i>Mycoplasma pneumoniae</i> . <i>MBio</i> , 2016, 7, e00243-16.	4.1	25
14	Cryo-EM structure of a functional monomeric Photosystem I from <i>Thermosynechococcus elongatus</i> reveals red chlorophyll cluster. <i>Communications Biology</i> , 2021, 4, 304.	4.4	25
15	Novel Insights into Conformational Rearrangements of the Bacterial Flagellar Switch Complex. <i>MBio</i> , 2019, 10, .	4.1	23
16	Immunodominant proteins P1 and P40/P90 from human pathogen <i>Mycoplasma pneumoniae</i> . <i>Nature Communications</i> , 2020, 11, 5188.	12.8	22
17	Two Distinct Conformations in 34 FljF Subunits Generate Three Different Symmetries within the Flagellar MS-Ring. <i>MBio</i> , 2021, 12, .	4.1	20
18	Role of the Dc domain of the bacterial hook protein FlgE in hook assembly and function. <i>Biophysics (Nagoya-shi, Japan)</i> , 2013, 9, 63-72.	0.4	19

#	ARTICLE	IF	CITATIONS
19	Refined Mechanism of <i>Mycoplasma mobile</i> Gliding Based on Structure, ATPase Activity, and Sialic Acid Binding of Machinery. <i>MBio</i> , 2019, 10, .	4.1	17
20	Structure of <i>Salmonella</i> Flagellar Hook Reveals Intermolecular Domain Interactions for the Universal Joint Function. <i>Biomolecules</i> , 2019, 9, 462.	4.0	16
21	Structural snapshots of V/A-ATPase reveal the rotary catalytic mechanism of rotary ATPases. <i>Nature Communications</i> , 2022, 13, 1213.	12.8	16
22	Chained Structure of Dimeric F ₁ -like ATPase in <i>Mycoplasma mobile</i> Gliding Machinery. <i>MBio</i> , 2021, 12, e0141421.	4.1	15
23	Structure and dynamics of <i>Odinarchaeota</i> tubulin and the implications for eukaryotic microtubule evolution. <i>Science Advances</i> , 2022, 8, eabm2225.	10.3	13
24	Mechanical inhibition of isolated Vo from V/A-ATPase for proton conductance. <i>ELife</i> , 2020, 9, .	6.0	11
25	Structural insight into the activation mechanism of MrgD with heterotrimeric Gi-protein revealed by cryo-EM. <i>Communications Biology</i> , 2022, 5, .	4.4	8
26	Functional Analysis of the GPI Transamidase Complex by Screening for Amino Acid Mutations in Each Subunit. <i>Molecules</i> , 2021, 26, 5462.	3.8	5
27	Electron Microscopy of Motor Structure and Possible Mechanisms. , 2018, , 1-8.		1