## Katsumi Imada

List of Publications by Year in descending order

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101543 106344 4,835 108 36 65 citations h-index g-index papers 112 112 112 3080 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Structural Basis of Ubiquitin Recognition by a Bacterial Ovarian Tumor Deubiquitinase LotA. Journal of Bacteriology, 2022, 204, JB0037621.	2.2	11
2	A new <scp>lâ€</scp> arginine oxidase engineered from <scp>lâ€</scp> glutamate oxidase. Protein Science, 2021, 30, 1044-1055.	7.6	4
3	Two Distinct Conformations in 34 FliF Subunits Generate Three Different Symmetries within the Flagellar MS-Ring. MBio, 2021, 12, .	4.1	20
4	The FlhA linker mediates flagellar protein export switching during flagellar assembly. Communications Biology, 2021, 4, 646.	4.4	16
5	A slight bending of an α-helix in FliM creates a counterclockwise-locked structure of the flagellar motor in <i>Vibrio</i> . Journal of Biochemistry, 2021, 170, 531-538.	1.7	6
6	Native flagellar MS ring is formed by 34 subunits with 23-fold and 11-fold subsymmetries. Nature Communications, 2021, 12, 4223.	12.8	34
7	ZomB is essential for chemotaxis of <i>Vibrio alginolyticus</i> by the rotational direction control of the polar flagellar motor. Genes To Cells, 2021, 26, 927-937.	1.2	4
8	Structural basis of enzyme activity regulation by the propeptide of l-lysine α-oxidase precursor from Trichoderma viride. Journal of Structural Biology: X, 2021, 5, 100044.	1.3	3
9	Structure of the bacterial flagellar hook cap provides insights into a hook assembly mechanism. Communications Biology, 2021, 4, 1291.	4.4	6
10	Structural basis of the binding affinity of chemoreceptors Mlp24p and Mlp37p for various amino acids. Biochemical and Biophysical Research Communications, 2020, 523, 233-238.	2.1	4
11	Structural basis of strict substrate recognition oflâ€lysine αâ€oxidase fromTrichoderma viride. Protein Science, 2020, 29, 2213-2225.	7.6	8
12	PorA, a conserved C-terminal domain-containing protein, impacts the PorXY-SigP signaling of the type IX secretion system. Scientific Reports, 2020, 10, 21109.	3.3	7
13	PorM, a core component of bacterial type IX secretion system, forms a dimer with a unique kinked-rod shape. Biochemical and Biophysical Research Communications, 2020, 532, 114-119.	2.1	15
14	<i>In Situ</i> Structure of the <i>Vibrio</i> Polar Flagellum Reveals a Distinct Outer Membrane Complex and Its Specific Interaction with the Stator. Journal of Bacteriology, 2020, 202, .	2.2	21
15	In Vitro Autonomous Construction of the Flagellar Axial Structure in Inverted Membrane Vesicles. Biomolecules, 2020, 10, 126.	4.0	9
16	Structure of polymerized type V pilin reveals assembly mechanism involving protease-mediated strand exchange. Nature Microbiology, 2020, 5, 830-837.	13.3	27
17	Structure and Energy-Conversion Mechanism of the Bacterial Na+-Driven Flagellar Motor. Trends in Microbiology, 2020, 28, 719-731.	7.7	31
18	Architecture of the Bacterial Flagellar Distal Rod and Hook of Salmonella. Biomolecules, 2019, 9, 260.	4.0	15

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19	Structural Insights into the Substrate Specificity Switch Mechanism of the Type III Protein Export Apparatus. Structure, 2019, 27, 965-976.e6.	3.3	39
20	Structure of the periplasmic domain of SflA involved in spatial regulation of the flagellar biogenesis of Vibrio reveals a TPR/SLR-like fold. Journal of Biochemistry, 2019, 166, 197-204.	1.7	9
21	Structure of $\langle i \rangle$ Vibrio $\langle i \rangle$ FliL, a New Stomatin-like Protein That Assists the Bacterial Flagellar Motor Function. MBio, 2019, 10, .	4.1	37
22	Calcium Ions Modulate Amino Acid Sensing of the Chemoreceptor Mlp24 of <i>Vibrio cholerae</i> Journal of Bacteriology, 2019, 201, .	2.2	10
23	Insight into structural remodeling of the FlhA ring responsible for bacterial flagellar type III protein export. Science Advances, 2018, 4, eaao7054.	10.3	50
24	Bacterial flagellar axial structure and its construction. Biophysical Reviews, 2018, 10, 559-570.	3.2	42
25	Insight into adaptive remodeling of the rotor ring complex of the bacterial flagellar motor. Biochemical and Biophysical Research Communications, 2018, 496, 12-17.	2.1	17
26	The Helix Rearrangement in the Periplasmic Domain of the Flagellar Stator B Subunit Activates Peptidoglycan Binding and Ion Influx. Structure, 2018, 26, 590-598.e5.	3.3	83
27	<i>Salmonella</i> Flagellum., 2018, , .		3
28	In Vitro Reconstitution of Functional Type III Protein Export and Insights into Flagellar Assembly. MBio, $2018, 9, .$	4.1	32
29	Novel insight into an energy transduction mechanism of the bacterial flagellar type III protein export. Biophysics and Physicobiology, 2018, 15, 173-178.	1.0	4
30	Design and Preparation of the Fragment Proteins of the Flagellar Components Suitable for X-Ray Crystal Structure Analysis. Methods in Molecular Biology, 2017, 1593, 97-103.	0.9	2
31	Structural differences in the bacterial flagellar motor among bacterial species. Biophysics and Physicobiology, 2017, 14, 191-198.	1.0	47
32	Molecular Basis of Ligand Recognition by the Taurine/Amino Acid Chemoreceptor of <i>Vibrio cholerae</i> . Seibutsu Butsuri, 2017, 57, 291-295.	0.1	0
33	Assembly and stoichiometry of the core structure of the bacterial flagellar type III export gate complex. PLoS Biology, 2017, 15, e2002281.	5.6	69
34	Biochemical characterization of the flagellar stator-associated inner membrane protein FliL from Vibrio alginolyticus. Journal of Biochemistry, 2017, 161, mvw076.	1.7	8
35	Rearrangements of αâ€helical structures of FlgN chaperone control the binding affinity for its cognate substrates during flagellar type III export. Molecular Microbiology, 2016, 101, 656-670.	2.5	23
36	Identification of a Vibrio cholerae chemoreceptor that senses taurine and amino acids as attractants. Scientific Reports, 2016, 6, 20866.	3.3	61

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37	Dependence of fluorescent protein brightness on protein concentration in solution and enhancement of it. Scientific Reports, 2016, 6, 22342.	3.3	44
38	Epistasis effects of multiple ancestral-consensus amino acid substitutions on the thermal stability of glycerol kinase from Cellulomonas sp. NT3060. Journal of Bioscience and Bioengineering, 2016, 121, 497-502.	2.2	10
39	Insight into the flagella type III export revealed by the complex structure of the type III ATPase and its regulator. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3633-3638.	7.1	57
40	Molecular and structural analysis of Legionella Dotl gives insights into an inner membrane complex essential for type IV secretion. Scientific Reports, 2015, 5, 10912.	3.3	36
41	Recombinant expression, molecular characterization and crystal structure of antitumor enzyme, L-lysine Â-oxidase from Trichoderma viride. Journal of Biochemistry, 2015, 157, 549-559.	1.7	24
42	The bacterial flagellar motor and its structural diversity. Trends in Microbiology, 2015, 23, 267-274.	7.7	209
43	Structural Basis of the Assembly and Activation Mechanism of the Bacterial Flagellar Stator Complex. Nihon Kessho Gakkaishi, 2015, 57, 291-296.	0.0	0
44	Conformational change in the periplamic region of the flagellar stator coupled with the assembly around the rotor. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13523-13528.	7.1	84
45	Crystallization and preliminary X-ray analysis of the periplasmic domain of FliP, an integral membrane component of the bacterial flagellar type III protein-export apparatus. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1215-1218.	0.8	4
46	Assembly Mechanism of the Supramolecular Rings for Ultra High Speed Rotation in the Sodium-driven Vibrio Flagellar Motor. Seibutsu Butsuri, 2014, 54, 019-021.	0.1	0
47	X-ray Structure Analysis and Characterization of AFUEI, an Elastase Inhibitor from Aspergillus fumigatus. Journal of Biological Chemistry, 2013, 288, 17451-17459.	3.4	9
48	Effects of Chain Length of an Amphipathic Polypeptide Carrying the Repeated Amino Acid Sequence (LETLAKA) < sub > <i> n &lt; /i&gt; &lt; /sub &gt; on α-Helix and Fibrous Assembly Formation. Biochemistry, 2013, 52, 2810-2820.</i>	2.5	5
49	Interactions of bacterial flagellar chaperoneâ€"substrate complexes with <scp>FlhA</scp> contribute to coâ€ordinating assembly of the flagellar filament. Molecular Microbiology, 2013, 90, 1249-1261.	2.5	86
50	Draft Genome Sequence of a Thermophilic Member of the Bacillaceae , Anoxybacillus flavithermus Strain Kn10, Isolated from the Kan-nawa Hot Spring in Japan. Genome Announcements, 2013, 1, .	0.8	7
51	Expression, purification, crystallization and preliminary X-ray diffraction analysis of a core fragment of FlgG, a bacterial flagellar rod protein. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 547-550.	0.7	7
52	Interaction between FliJ and FlhA, Components of the Bacterial Flagellar Type III Export Apparatus. Journal of Bacteriology, 2013, 195, 466-473.	2.2	59
53	Insight into the assembly mechanism in the supramolecular rings of the sodium-driven <i>Vibrio</i> flagellar motor from the structure of FlgT. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6133-6138.	7.1	48
54	Glycine Insertion Makes Yellow Fluorescent Protein Sensitive to Hydrostatic Pressure. PLoS ONE, 2013, 8, e73212.	2.5	22

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55	Common Evolutionary Origin for the Rotor Domain of Rotary Atpases and Flagellar Protein Export Apparatus. PLoS ONE, 2013, 8, e64695.	2.5	34
56	The Roles of the Dimeric and Tetrameric Structures of the Clock Protein KaiB in the Generation of Circadian Oscillations in Cyanobacteria. Journal of Biological Chemistry, 2012, 287, 29506-29515.	3.4	35
57	Functional Defect and Restoration of Temperature-Sensitive Mutants of FlhA, a Subunit of the Flagellar Protein Export Apparatus. Journal of Molecular Biology, 2012, 415, 855-865.	4.2	11
58	Crystallization and preliminary X-ray analysis of the FliH–FliI complex responsible for bacterial flagellar type III protein export. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1311-1314.	0.7	2
59	Interaction between Flil ATPase and a flagellar chaperone FliT during bacterial flagellar protein export. Molecular Microbiology, 2012, 83, 168-178.	2.5	50
60	Interaction of a bacterial flagellar chaperone FlgN with FlhA is required for efficient export of its cognate substrates. Molecular Microbiology, 2012, 83, 775-788.	2.5	76
61	Phaseâ€dependent generation and transmission of time information by the KaiABC circadian clock oscillator through SasAâ€KaiC interaction in cyanobacteria. Genes To Cells, 2012, 17, 398-419.	1.2	25
62	Crystallization and preliminary X-ray analysis of FlgA, a periplasmic protein essential for flagellar P-ring assembly. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 310-313.	0.7	2
63	Assembly and Activation Mechanism of the Flagellar Stator Revealed by the Crystal Structure of Its Periplasmic Region. Seibutsu Butsuri, 2012, 52, 018-021.	0.1	0
64	Common architecture of the flagellar type III protein export apparatus and F- and V-type ATPases. Nature Structural and Molecular Biology, 2011, 18, 277-282.	8.2	161
65	Ligand Specificity Determined by Differentially Arranged Common Ligand-binding Residues in Bacterial Amino Acid Chemoreceptors Tsr and Tar. Journal of Biological Chemistry, 2011, 286, 42200-42210.	3.4	68
66	Genetic analysis of the bacterial hook-capping protein FlgD responsible for hook assembly. Microbiology (United Kingdom), 2011, 157, 1354-1362.	1.8	28
67	Structural Insight into the Rotational Switching Mechanism of the Bacterial Flagellar Motor. PLoS Biology, 2011, 9, e1000616.	5.6	88
68	Structure of the Flagellar Type III Export Chaperone FliT, and Its Regulatory Mechanism of Flagellar Assembly. Nihon Kessho Gakkaishi, 2011, 53, 396-401.	0.0	0
69	Structure of the cytoplasmic domain of FlhA and implication for flagellar type III protein export. Molecular Microbiology, 2010, 76, 260-268.	2.5	80
70	The interaction dynamics of a negative feedback loop regulates flagellar number in <i>Salmonella enterica</i> serovar Typhimurium. Molecular Microbiology, 2010, 78, 1416-1430.	2.5	40
71	Structural insight into the regulatory mechanisms of interactions of the flagellar type III chaperone FliT with its binding partners. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8812-8817.	7.1	73
72	Role of the C-Terminal Cytoplasmic Domain of FlhA in Bacterial Flagellar Type III Protein Export. Journal of Bacteriology, 2010, 192, 1929-1936.	2.2	57

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73	Crystal Structure of Legionella DotD: Insights into the Relationship between Type IVB and Type II/III Secretion Systems. PLoS Pathogens, 2010, 6, e1001129.	4.7	50
74	Role of the Nâ€terminal domain of FliI ATPase in bacterial flagellar protein export. FEBS Letters, 2009, 583, 743-748.	2.8	18
75	Crystallization and preliminary X-ray analysis of a C-terminal fragment of FlgJ, a putative flagellar rod cap protein from <i>Salmonella </i> . Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 17-20.	0.7	3
76	Crystallization and preliminary X-ray analysis of FliJ, a cytoplasmic component of the flagellar type III protein-export apparatus from Salmonellasp Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 47-50.	0.7	9
77	Purification, crystallization and preliminary X-ray analysis of FliT, a bacterial flagellar substrate-specific export chaperone. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 825-828.	0.7	5
78	Stator assembly and activation mechanism of the flagellar motor by the periplasmic region of MotB. Molecular Microbiology, 2009, 73, 710-718.	2.5	170
79	Structure and quantum chemical analysis of NAD <sup>+</sup> â€dependent isocitrate dehydrogenase: Hydride transfer and coâ€factor specificity. Proteins: Structure, Function and Bioinformatics, 2008, 70, 63-71.	2.6	22
80	Molecular motors of the bacterial flagella. Current Opinion in Structural Biology, 2008, 18, 693-701.	5.7	190
81	Mechanisms of type III protein export for bacterial flagellar assembly. Molecular BioSystems, 2008, 4, 1105.	2.9	171
82	Insights into the stator assembly of the <i>Vibrio</i> flagellar motor from the crystal structure of MotY. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7696-7701.	7.1	74
83	Molecular Interaction and Energy Frustration Play Essential Roles in Polymorphic Supercoiling of Bacterial Flagellar Filament. Seibutsu Butsuri, 2008, 48, 011-017.	0.1	0
84	Structural similarity between the flagellar type III ATPase Flil and F1-ATPase subunits. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 485-490.	7.1	146
85	Gap compression/extension mechanism of bacterial flagellar hook as the molecular universal joint. Journal of Structural Biology, 2007, 157, 481-490.	2.8	19
86	Crystallization and preliminary X-ray analysis of MotY, a stator component of the Vibrio alginolyticus polar flagellar motor. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 89-92.	0.7	2
87	PAX6 and SOX2â€dependent regulation of the <i>Sox2</i> enhancer Nâ€3 involved in embryonic visual system development. Genes To Cells, 2007, 12, 1049-1061.	1.2	87
88	Coarse-Grained Molecular Dynamics Simulations of a Rotating Bacterial Flagellum. Biophysical Journal, 2006, 91, 4589-4597.	0.5	93
89	Crystallization and preliminary X-ray analysis of Salmonella Flil, the ATPase component of the type III flagellar protein-export apparatus. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 973-975.	0.7	3
90	Switch interactions control energy frustration and multiple flagellar filament structures. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4894-4899.	7.1	60

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91	Crystallization and preliminary X-ray analysis of the C-terminal cytoplasmic domain of FlhA, a membrane-protein subunit of the bacterial flagellar type III protein-export apparatus. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 599-602.	0.7	5
92	Functionally Important Substructures of Circadian Clock Protein KaiB in a Unique Tetramer Complex. Journal of Biological Chemistry, 2005, 280, 43141-43149.	3.4	65
93	A partial atomic structure for the flagellar hook of Salmonella typhimurium. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1023-1028.	7.1	50
94	Structure of the bacterial flagellar hook and implication for the molecular universal joint mechanism. Nature, 2004, 431, 1062-1068.	27.8	176
95	Crystallization and preliminary crystallographic analysis of the circadian clock protein KaiB from the thermophilic cyanobacteriumThermosynechococcus elongatusBP-1. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 727-729.	2.5	8
96	Crystallization of a core fragment of the flagellar hook protein FlgE. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2078-2080.	2.5	8
97	ATP-induced hexameric ring structure of the cyanobacterial circadian clock protein KaiC. Genes To Cells, 2003, 8, 287-296.	1.2	125
98	Interactions between Bacterial Flagellar Axial Proteins in Their Monomeric State in Solution. Journal of Molecular Biology, 2002, 318, 889-900.	4.2	26
99	Biochemical and molecular characterization of the NAD+-dependent isocitrate dehydrogenase from the chemolithotrophAcidithiobacillus thiooxidans. FEMS Microbiology Letters, 2002, 214, 127-132.	1.8	21
100	Structure of the bacterial flagellar protofilament and implications for a switch for supercoiling. Nature, 2001, 410, 331-337.	27.8	480
101	Crystallization of the F41 Fragment of Flagellin and Data Collection from Extremely Thin Crystals. Journal of Structural Biology, 2000, 132, 106-111.	2.8	34
102	Structure of 3-isopropylmalate dehydrogenase in complex with 3-isopropylmalate at 2.0 ť resolution: the role of Glu88 in the unique substrate-recognition mechanism. Structure, 1998, 6, 971-982.	3.3	64
103	Assembly characteristics of flagellar cap protein HAP2 of Salmonella : decamer and pentamer in the ph-sensitive equilibrium 1 1Edited by M. F. Moody. Journal of Molecular Biology, 1998, 277, 883-891.	4.2	30
104	Plugging interactions of HAP2 pentamer into the distal end of flagellar filament revealed by electron microscopy 1 1Edited by M. F. Moody. Journal of Molecular Biology, 1998, 277, 771-777.	4.2	28
105	Mechanism of self-association and filament capping by flagellar HAP2 1 1Edited by M. F. Moody. Journal of Molecular Biology, 1998, 284, 1399-1416.	4.2	34
106	Crystallization and Preliminary X-Ray Studies of a Bacillus subtilis and Thermus thermophilus HB8 Chimeric 3-Isopropylmalate Dehydrogenase and Thermostable Mutants of It. Journal of Biochemistry, 1992, 112, 173-174.	1.7	8
107	Three-dimensional structure of a highly thermostable enzyme, 3-isopropylmalate dehydrogenase of Thermus thermophilus at 2.2 Ã resolution. Journal of Molecular Biology, 1991, 222, 725-738.	4.2	215
108	Crystallization and Preliminary X-Ray Studies of a Bacillus subtilis and Thermuts thermophilus HB8 Chimeric 3-Isopropylmalate Dehy drogenasel. Journal of Biochemistry, 1991, 109, 1-2.	1.7	8