

# Yasuhiro Takahashi

## List of Publications by Year in descending order

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59  
papers

2,932  
citations

185998

28  
h-index

182168

51  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2098  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Third Bacterial System for the Assembly of Iron-Sulfur Clusters with Homologs in Archaea and Plastids. <i>Journal of Biological Chemistry</i> , 2002, 277, 28380-28383.	1.6	384
2	Functional Assignment of the ORF2-iscS-iscU-iscA-hscB-hscA-fdx-ORF3 Gene Cluster Involved in the Assembly of Fe-S Clusters in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 1999, 126, 917-926.	0.9	219
3	Solvent Tuning of Electrochemical Potentials in the Active Sites of HiPIP Versus Ferredoxin. <i>Science</i> , 2007, 318, 1464-1468.	6.0	192
4	Iron-Sulfur Cluster Assembly. <i>Journal of Biological Chemistry</i> , 2001, 276, 22604-22607.	1.6	176
5	Cys-328 of IscS and Cys-63 of IscU are the sites of disulfide bridge formation in a covalently bound IscS/IscU complex: Implications for the mechanism of iron-sulfur cluster assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5948-5952.	3.3	118
6	An Intestinal Parasitic Protist, <i>Entamoeba histolytica</i> , Possesses a Non-redundant Nitrogen Fixation-like System for Iron-Sulfur Cluster Assembly under Anaerobic Conditions. <i>Journal of Biological Chemistry</i> , 2004, 279, 16863-16874.	1.6	113
7	The Protein Responsible for Center A/B in Spinach Photosystem I: Isolation with Iron-Sulfur Cluster(s) and Complete Sequence Analysis <sup>1</sup> . <i>Journal of Biochemistry</i> , 1988, 103, 962-968.	0.9	112
8	Interchangeability and Distinct Properties of Bacterial Fe-S Cluster Assembly Systems: Functional Replacement of the isc and suf Operons in <i>Escherichia coli</i> with the nifSU-Like Operon from <i>Helicobacter pylori</i> . <i>Journal of Biochemistry</i> , 2004, 136, 199-209.	0.9	107
9	Network of Protein-Protein Interactions among Iron-Sulfur Cluster Assembly Proteins in <i>Escherichia coli</i> 1. <i>Journal of Biochemistry</i> , 2002, 131, 713-719.	0.9	99
10	Crystal structure of phycocyanobilin:ferredoxin oxidoreductase in complex with biliverdin IX $\alpha$ , a key enzyme in the biosynthesis of phycocyanobilin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 27-32.	3.3	93
11	The 8 kDa polypeptide in photosystem I is a probable candidate of an iron-sulfur center protein coded by the chloroplast gene frxA. <i>FEBS Letters</i> , 1987, 218, 52-54.	1.3	88
12	The Asymmetric Trimeric Architecture of [2Fe $\mu$ S] IscU: Implications for Its Scaffolding during Iron $\mu$ Sulfur Cluster Biosynthesis. <i>Journal of Molecular Biology</i> , 2008, 383, 133-143.	2.0	88
13	Crystal Structure of <i>Escherichia coli</i> Fdx, an Adrenodoxin-Type Ferredoxin Involved in the Assembly of Iron $\mu$ Sulfur Clusters. <i>Biochemistry</i> , 2001, 40, 11007-11012.	1.2	82
14	Functional Dynamics Revealed by the Structure of the SufBCD Complex, a Novel ATP-binding Cassette (ABC) Protein That Serves as a Scaffold for Iron-Sulfur Cluster Biogenesis. <i>Journal of Biological Chemistry</i> , 2015, 290, 29717-29731.	1.6	77
15	Cloning, Nucleotide Sequences and Differential Expression of the nifH and nifH-Like (frxC) Genes from the Filamentous Nitrogen-Fixing Cyanobacterium <i>Plectonema boryanum</i> . <i>Plant and Cell Physiology</i> , 1991, 32, 1093-1106.	1.5	64
16	The iscS gene is essential for the biosynthesis of 2-selenouridine in tRNA and the selenocysteine-containing formate dehydrogenase H. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6679-6683.	3.3	64
17	Topological Considerations of the 9-kDa Polypeptide which Contains Centers A and B, Associated with the 14- and 19-kDa Polypeptides in the Photosystem I Complex of Spinach. <i>Plant and Cell Physiology</i> , 1989, 30, 869-875.	1.5	57
18	Crystal structure of tobacco necrosis virus at 2.25 Å... resolution. <i>Journal of Molecular Biology</i> , 2000, 300, 153-169.	2.0	51

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19	Novel features of the <i>ISC</i> machinery revealed by characterization of <i>Escherichia coli</i> mutants that survive without iron-sulfur clusters. <i>Molecular Microbiology</i> , 2016, 99, 835-848.	1.2	48
20	Characterization of Cluster N5 as a Fast-relaxing [4Fe-4S] Cluster in the Nqo3 Subunit of the Proton-translocating NADH-ubiquinone Oxidoreductase from <i>Paracoccus denitrificans</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 15514-15522.	1.6	42
21	Crystal structure of <i>Escherichia coli</i> SufA involved in biosynthesis of iron-sulfur clusters: Implications for a functional dimer. <i>FEBS Letters</i> , 2005, 579, 6543-6548.	1.3	42
22	Atomic resolution structures of oxidized [4Fe-4S] ferredoxin from <i>Bacillus thermoproteolyticus</i> in two crystal forms: systematic distortion of [4Fe-4S] cluster in the protein. <i>Journal of Molecular Biology</i> , 2002, 315, 1155-1166.	2.0	41
23	The Radical S-Adenosyl-L-methionine Enzyme QhpD Catalyzes Sequential Formation of Intra-protein Sulfur-to-Methylene Carbon Thioether Bonds. <i>Journal of Biological Chemistry</i> , 2015, 290, 11144-11166.	1.6	40
24	Identification of a novel nifH-like (frxC) protein in chloroplasts of the liverwort <i>Marchantia polymorpha</i> . <i>Plant Molecular Biology</i> , 1989, 13, 551-561.	2.0	39
25	Crystal structure of <i>Escherichia coli</i> SufC, an ABC-type ATPase component of the SUF iron-sulfur cluster assembly machinery. <i>FEBS Letters</i> , 2006, 580, 137-143.	1.3	39
26	Molecular Dynamism of Fe-S Cluster Biosynthesis Implicated by the Structure of the SufC2-SufD2 Complex. <i>Journal of Molecular Biology</i> , 2009, 387, 245-258.	2.0	39
27	Formation of the Fe-S Cluster of Ferredoxin in Lysed Spinach Chloroplasts. <i>Plant Physiology</i> , 1991, 95, 97-103.	2.3	37
28	Roles of ATP and NADPH in Formation of the Fe-S Cluster of Spinach Ferredoxin. <i>Plant Physiology</i> , 1991, 95, 104-110.	2.3	33
29	Mapping the key residues of SufB and SufD essential for biosynthesis of iron-sulfur clusters. <i>Scientific Reports</i> , 2017, 7, 9387.	1.6	31
30	Crystal structure of <i>Escherichia coli</i> Yfhj protein, a member of the ISC machinery involved in assembly of iron-sulfur clusters. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 60, 566-569.	1.5	29
31	Structural Insights into Vinyl Reduction Regiospecificity of Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA). <i>Journal of Biological Chemistry</i> , 2010, 285, 1000-1007.	1.6	26
32	Zinc-Ligand Swapping Mediated Complex Formation and Sulfur Transfer between SufS and SufU for Iron-Sulfur Cluster Biogenesis in <i>Bacillus subtilis</i> . <i>Journal of the American Chemical Society</i> , 2017, 139, 18464-18467.	6.6	26
33	Characterization and Crystallization of an IscU-type Scaffold Protein with Bound [2Fe 2S] Cluster from the Hyperthermophile, <i>Aquifex aeolicus</i> . <i>Journal of Biochemistry</i> , 2007, 142, 577-586.	0.9	24
34	Structure of a Co-Transcribed Gene Cluster, <i>ndhI-frxB3-ndh6-ndh4L</i> , Cloned from the Filamentous Cyanobacterium <i>Plectonema boryanum</i> 4. <i>Plant and Cell Physiology</i> , 1991, 32, 969-981.	1.5	22
35	Induced-fitting and electrostatic potential change of PcyA upon substrate binding demonstrated by the crystal structure of the substrate-free form. <i>FEBS Letters</i> , 2006, 580, 3823-3828.	1.3	21
36	IscR Regulates RNase LS Activity by Repressing <i>rnlA</i> Transcription. <i>Genetics</i> , 2010, 185, 823-830.	1.2	20

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37	Distinct roles for U $\epsilon$ -type proteins in iron $\epsilon$ -sulfur cluster biosynthesis revealed by genetic analysis of the <i>Bacillus subtilis</i> sufCDSUB operon. <i>Molecular Microbiology</i> , 2018, 107, 688-703.	1.2	20
38	Snapshots of PLP $\epsilon$ -substrate and PLP $\epsilon$ -product external aldimines as intermediates in two types of cysteine desulfurase enzymes. <i>FEBS Journal</i> , 2020, 287, 1138-1154.	2.2	19
39	The Structure of the Dimeric State of IscU Harboring Two Adjacent [2Fe $\epsilon$ -2S] Clusters Provides Mechanistic Insights into Cluster Conversion to [4Fe $\epsilon$ -4S]. <i>Biochemistry</i> , 2021, 60, 1569-1572.	1.2	17
40	Identification of Variant Molecules of <i>Bacillus thermoproteolyticus</i> Ferredoxin: A Crystal Structure Reveals Bound Coenzyme A and an Unexpected [3Fe $\epsilon$ -4S] Cluster Associated with a Canonical [4Fe $\epsilon$ -4S] Ligand Motif. <i>Biochemistry</i> , 2005, 44, 12402-12410.	1.2	14
41	Identification of IscU residues critical for de novo iron $\epsilon$ -sulfur cluster assembly. <i>Molecular Microbiology</i> , 2019, 112, 1769-1783.	1.2	13
42	Crystallization and preliminary X-ray crystallographic studies of the oxidative-stress sensor SoxR and its complex with DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1275-1277.	0.7	12
43	The role of the Fe $\epsilon$ S cluster in the sensory domain of nitrogenase transcriptional activator VnfA from <i>Azotobacter vinelandii</i> . <i>FEBS Journal</i> , 2010, 277, 817-832.	2.2	12
44	A substrate-bound structure of cyanobacterial biliverdin reductase identifies stacked substrates as critical for activity. <i>Nature Communications</i> , 2017, 8, 14397.	5.8	9
45	Amino Acid Sequence of <i>Chlorogloeopsis fritschii</i> Ferredoxin: Taxonomic and Evolutionary Aspects 1. <i>Journal of Biochemistry</i> , 1982, 92, 1363-1368.	0.9	8
46	Primary Structure and Phylogenetic Analysis of the Coat Protein of a Toyama Isolate of Tobacco Necrosis Virus. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 719-724.	0.6	6
47	Evidence for dynamic in vivo interconversion of the conformational states of IscU during iron $\epsilon$ -sulfur cluster biosynthesis. <i>Molecular Microbiology</i> , 2021, 115, 807-818.	1.2	6
48	Structural diversity of cysteine desulfurases involved in iron-sulfur cluster biosynthesis. <i>Biophysics and Physicobiology</i> , 2022, 19, n/a.	0.5	6
49	Three iron-sulfur proteins encoded by three ORFs in chloroplasts and cyanobacteria. <i>Photosynthesis Research</i> , 1995, 46, 107-115.	1.6	2
50	Response of Fe $\epsilon$ -S cluster assembly machinery of <i>Escherichia coli</i> to mechanical stress in a model of amino-acid crystal fermentation. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 287-293.	1.1	2
51	Cycloserine enantiomers inhibit PLP $\epsilon$ -dependent cysteine desulfurase SufS via distinct mechanisms. <i>FEBS Journal</i> , 2022, 289, 5947-5970.	2.2	2
52	é%,,çj«é»,ã,ãf ©ã,1ã,ãf1/4ç”Yãæ^ãfžã,ãfSãfãf1/4ãæS«éãã1/2œããæ©YæS«. <i>Kagaku To Seibutsu</i> , 2010, 48, 820-838.		1
53	Amino acid sequence of ferredoxin from the cyanobacterium <i>Chlorogloeopsis fritschii</i> . <i>Biochemical Society Transactions</i> , 1981, 9, 327-327.	1.6	0
54	Sulfur-mobilizing Enzymes Involved in Iron-sulfur Cluster Biosynthesis: Shared Structural Features and Functional Diversity. <i>Seibutsu Butsuri</i> , 2021, 61, 180-182.	0.0	0

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55	The 9-kDa Polypeptide with Iron-Sulfur Centers A/B in Spinach Photosystem I with Special Reference to Its Structure and Topographic Consideration in Thylakoid Membrane. , 1990, , 261-270.		0
56	The Light-Independent Reduction of Protochlorophyllide in the Cyanobacterium Plectonema Bomyanum. , 1992, , 67-70.		0
57	Evolutionary Aspects of Iron-Sulfur Proteins in Photosynthetic Apparatus. , 1992, , 491-498.		0
58	Iron-Sulfur Proteins Involved in Various Biological Reactions.. Seibutsu Butsuri, 1995, 35, 57-62.	0.0	0
59	Analysis of cell death in <i>Bacillus subtilis</i> caused by sesquiterpenes from <i>Chrysopogon</i> <i>zizanioides</i> (L.) Roberty & . Journal of General and Applied Microbiology, 2022, 68, 62-70.	0.4	0