

# Takao Yoshida

## List of Publications by Year in descending order

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62  
papers

1,646  
citations

279798

23  
h-index

330143

37  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Genome of the Thioautotrophic Intracellular Symbiont in a Deep-Sea Clam, <i>Calyptogena okutanii</i> . <i>Current Biology</i> , 2007, 17, 881-886.	3.9	173
2	Crystal Structures of the Group II Chaperonin from <i>Thermococcus</i> strain KS-1: Steric Hindrance by the Substituted Amino Acid, and Inter-subunit Rearrangement between Two Crystal Forms. <i>Journal of Molecular Biology</i> , 2004, 335, 1265-1278.	4.2	82
3	Structural and functional characterization of homo-oligomeric complexes of $\hat{I}^1$ and $\hat{I}^2$ chaperonin subunits from the hyperthermophilic archaeum <i>Thermococcus</i> strain KS-1. Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 1997, 273, 635-645.	4.2	77
4	Heterogeneous composition of key metabolic gene clusters in a vent mussel symbiont population. <i>ISME Journal</i> , 2016, 10, 990-1001.	9.8	77
5	Molecular Evidence that Phylogenetically Diverged Ciliates Are Active in Microbial Mats of Deep-Sea Cold-Sediment. <i>Journal of Eukaryotic Microbiology</i> , 2010, 57, 76-86.	1.7	69
6	Algivore or Phototroph? <i>Plakobranthus ocellatus</i> (Gastropoda) Continuously Acquires Kleptoplasts and Nutrition from Multiple Algal Species in Nature. <i>PLoS ONE</i> , 2012, 7, e42024.	2.5	68
7	Group II Chaperonin in a Thermophilic Methanogen, <i>Methanococcus thermolithotrophicus</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 28399-28407.	3.4	61
8	<i>Pyrococcus</i> Prefoldin Stabilizes Protein-Folding Intermediates and Transfers Them to Chaperonins for Correct Folding. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 769-774.	2.1	52
9	Archaeal group II chaperonin mediates protein folding in the cis-cavity without a detachable GroES-like co-chaperonin. Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 2002, 315, 73-85.	4.2	46
10	ATP Binding Is Critical for the Conformational Change from an Open to Closed State in Archaeal Group II Chaperonin. <i>Journal of Biological Chemistry</i> , 2003, 278, 44959-44965.	3.4	45
11	Localization of Prefoldin Interaction Sites in the Hyperthermophilic Group II Chaperonin and Correlations between Binding Rate and Protein Transfer Rate. <i>Journal of Molecular Biology</i> , 2006, 364, 110-120.	4.2	42
12	Role of the Helical Protrusion in the Conformational Change and Molecular Chaperone Activity of the Archaeal Group II Chaperonin. <i>Journal of Biological Chemistry</i> , 2004, 279, 18834-18839.	3.4	41
13	Natural chaperonin of the hyperthermophilic archaeum, <i>Thermococcus</i> strain KS-1: a hetero-oligomeric chaperonin with variable subunit composition. <i>Molecular Microbiology</i> , 2004, 39, 1406-1413.	2.5	39
14	Surfing the vegetal pole in a small population: extracellular vertical transmission of an 'intracellular' deep-sea clam symbiont. <i>Royal Society Open Science</i> , 2016, 3, 160130.	2.4	35
15	Discovery of asphalt seeps in the deep Southwest Atlantic off Brazil. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 146, 35-44.	1.4	32
16	FK506-binding protein of the hyperthermophilic archaeum, <i>Thermococcus</i> sp. KS-1, a cold-shock-inducible peptidyl-prolyl cis-trans isomerase with activities to trap and refold denatured proteins. <i>Biochemical Journal</i> , 2001, 357, 465-471.	3.7	31
17	Expression of genes for sulfur oxidation in the intracellular chemoautotrophic symbiont of the deep-sea bivalve <i>Calyptogena okutanii</i> . <i>Extremophiles</i> , 2009, 13, 895-903.	2.3	30
18	Phagocytic activities of hemocytes from the deep-sea symbiotic mussels <i>Bathymodiolus japonicus</i> , <i>B. platifrons</i> , and <i>B. septemdirum</i> . <i>Fish and Shellfish Immunology</i> , 2015, 45, 146-156.	3.6	30

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19	Culture-independent method for identification of microbial enzyme-encoding genes by activity-based single-cell sequencing using a water-in-oil microdroplet platform. <i>Scientific Reports</i> , 2016, 6, 22259.	3.3	30
20	Glycine at the 65th Position Plays an Essential Role in ATP-Dependent Protein Folding by Archaeal Group II Chaperonin. <i>Biochemical and Biophysical Research Communications</i> , 2001, 289, 1118-1124.	2.1	29
21	Characterization of Archaeal Group II Chaperonin-ADP-Metal Fluoride Complexes. <i>Journal of Biological Chemistry</i> , 2005, 280, 40375-40383.	3.4	29
22	Chloroplast acquisition without the gene transfer in kleptoplastic sea slugs, <i>Plakobranthus ocellatus</i> . <i>ELife</i> , 2021, 10, .	6.0	29
23	Reductive genome evolution in chemoautotrophic intracellular symbionts of deep-sea <i>Calyptogena</i> clams. <i>Extremophiles</i> , 2008, 12, 365-374.	2.3	28
24	Genomic Evidence that Methanotrophic Endosymbionts Likely Provide Deep-Sea <i>Bathymodiolus</i> Mussels with a Sterol Intermediate in Cholesterol Biosynthesis. <i>Genome Biology and Evolution</i> , 2017, 9, 1148-1160.	2.5	28
25	The 28.3 kDa FK506 binding protein from a thermophilic archaeum, <i>Methanobacterium thermoautotrophicum</i> , protects the denaturation of proteins in vitro. <i>FEBS Journal</i> , 2000, 267, 3139-3149.	0.2	23
26	Two kinds of archaeal group II chaperonin subunits with different thermostability in <i>Thermococcus</i> strain KS-1. <i>Molecular Microbiology</i> , 2002, 44, 761-769.	2.5	23
27	Loss of genes for DNA recombination and repair in the reductive genome evolution of thioautotrophic symbionts of <i>Calyptogena</i> clams. <i>BMC Evolutionary Biology</i> , 2011, 11, 285.	3.2	23
28	Functional Characterization of Recombinant Prefoldin Complexes from a Hyperthermophilic Archaeon, <i>Thermococcus</i> sp. Strain KS-1. <i>Journal of Molecular Biology</i> , 2008, 377, 972-983.	4.2	22
29	FK506-binding protein of the hyperthermophilic archaeum, <i>Thermococcus</i> sp. KS-1, a cold-shock-inducible peptidyl-prolyl cis-trans isomerase with activities to trap and refold denatured proteins. <i>Biochemical Journal</i> , 2001, 357, 465.	3.7	21
30	Ancient Occasional Host Switching of Maternally Transmitted Bacterial Symbionts of Chemosynthetic Vesicomyid Clams. <i>Genome Biology and Evolution</i> , 2017, 9, 2226-2236.	2.5	21
31	Contribution of the C-terminal region to the thermostability of the archaeal group II chaperonin from <i>Thermococcus</i> sp. strain KS-1. <i>Extremophiles</i> , 2006, 10, 451-459.	2.3	20
32	Identification of cells expressing two peptidoglycan recognition proteins in the gill of the vent mussel, <i>Bathymodiolus septemdierum</i> . <i>Fish and Shellfish Immunology</i> , 2019, 93, 815-822.	3.6	20
33	Updated mitochondrial phylogeny of Pteriomorph and Heterodont Bivalvia, including deep-sea chemosymbiotic <i>Bathymodiolus</i> mussels, vesicomyid clams and the thyasirid clam <i>Conchocele cf. bisecta</i> . <i>Marine Genomics</i> , 2017, 31, 43-52.	1.1	19
34	Structural and functional characterization of homo-oligomeric complexes of $\hat{1}$ and $\hat{2}$ chaperonin subunits from the hyperthermophilic archaeum <i>Thermococcus</i> strain KS-1. <i>Journal of Molecular Biology</i> , 2000, 299, 1399-1400.	4.2	18
35	Expression of genes involved in the uptake of inorganic carbon in the gill of a deep-sea vesicomyid clam harboring intracellular thioautotrophic bacteria. <i>Gene</i> , 2016, 585, 228-240.	2.2	17
36	Small heat shock protein of a hyperthermophilic archaeum, <i>Thermococcus</i> sp. strain KS-1, exists as a spherical 24 mer and its expression is highly induced under heat-stress conditions. <i>Journal of Bioscience and Bioengineering</i> , 2001, 92, 161-166.	2.2	16

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37	Long-term Cultivation of the Deep-Sea Clam <i>Calyptogena okutanii</i> : Changes in the Abundance of Chemoautotrophic Symbiont, Elemental Sulfur, and Mucus. <i>Biological Bulletin</i> , 2016, 230, 257-267.	1.8	16
38	Turrids whelk, <i>Phymorhynchus buccinoides</i> feeds on <i>Bathymodiolus</i> mussels at a seep site in Sagami Bay, Japan. <i>Plankton and Benthos Research</i> , 2009, 4, 23-30.	0.6	16
39	Characterization of Homo-oligomeric Complexes of $\hat{1}\pm$ and $\hat{1}^2$ Chaperonin Subunits from the Acidothermophilic Archaeon, <i>Sulfolobus</i> sp. Strain 7. <i>Biochemical and Biophysical Research Communications</i> , 1998, 242, 640-647.	2.1	14
40	Cysteine dioxygenase and cysteine sulfinatase decarboxylase genes of the deep-sea mussel <i>Bathymodiolus septemdiemum</i> : possible involvement in hypotaurine synthesis and adaptation to hydrogen sulfide. <i>Amino Acids</i> , 2015, 47, 571-578.	2.7	14
41	Exclusive localization of carbonic anhydrase in bacteriocytes of the deep-sea clam <i>Calyptogena okutanii</i> with thioautotrophic symbiotic bacteria. <i>Journal of Experimental Biology</i> , 2013, 216, 4403-14.	1.7	13
42	An engineered chaperonin caging a guest protein: Structural insights and potential as a protein expression tool. <i>Protein Science</i> , 2005, 14, 341-350.	7.6	12
43	Effect of long-term exposure to sulfides on taurine transporter gene expression in the gill of the deep-sea mussel <i>Bathymodiolus platifrons</i> , which harbors a methanotrophic symbiont. <i>Fisheries Science</i> , 2010, 76, 381-388.	1.6	12
44	Spatial distribution of sister species of vesicomyid bivalves <i>Calyptogena okutanii</i> and <i>Calyptogena soyoeae</i> along an environmental gradient in chemosynthetic biological communities in Japan. <i>Journal of Oceanography</i> , 2013, 69, 129-134.	1.7	12
45	Phagocytosis of exogenous bacteria by gill epithelial cells in the deep-sea symbiotic mussel <i>Bathymodiolus japonicus</i> . <i>Royal Society Open Science</i> , 2022, 9, .	2.4	10
46	Sensing deep extreme environments: the receptor cell types, brain centers, and multi-layer neural packaging of hydrothermal vent endemic worms. <i>Frontiers in Zoology</i> , 2014, 11, 82.	2.0	9
47	Morphological and functional characterization of hemocytes from two deep-sea vesicomyid clams <i>Phreagena okutanii</i> and <i>Abyssogena phaseoliformis</i> . <i>Fish and Shellfish Immunology</i> , 2018, 74, 281-294.	3.6	9
48	Mucus Glycoproteins Selectively Secreted from Bacteriocytes in Gill Filaments of the Deep-Sea Clam <i>Calyptogena okutanii</i> . <i>Open Journal of Marine Science</i> , 2013, 03, 167-174.	0.5	9
49	Nucleotide specificity of an archaeal group II chaperonin from <i>Thermococcus</i> strain KS-1 with reference to the ATP-dependent protein folding cycle. <i>FEBS Letters</i> , 2002, 514, 269-274.	2.8	8
50	Symbiont Transmission onto the Cell Surface of Early Oocytes in the Deep-Sea Clam <i>Phreagena okutanii</i> . <i>Zoological Science</i> , 2021, 38, 140-147.	0.7	6
51	Loss of genes related to Nucleotide Excision Repair (NER) and implications for reductive genome evolution in symbionts of deep-sea vesicomyid clams. <i>PLoS ONE</i> , 2017, 12, e0171274.	2.5	6
52	Comparative analysis of the protein folding activities of two chaperonin subunits of <i>Thermococcus</i> strain KS-1: the effects of beryllium fluoride. <i>Extremophiles</i> , 2007, 11, 225-235.	2.3	5
53	Monoclonal antibodies to hemocytes of the deep-sea symbiotic mussel, <i>Bathymodiolus japonicus</i> . <i>JAMSTEC Report of Research and Development</i> , 2016, 23, 27-33.	0.2	5
54	Electrical Collection of Membrane-intact and Dehydrogenase-positive Symbiotic Bacteria from the Deep-sea Bivalve <i>Calyptogena Okutanii</i> . <i>Electrochemistry</i> , 2016, 84, 358-360.	1.4	4

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55	Effects of a long-term rearing system for deep-sea vesicomid clams on host survival and endosymbiont retention. <i>Fisheries Science</i> , 2018, 84, 41-51.	1.6	4
56	Inside or out? Clonal thiotrophic symbiont populations occupy deep-sea mussel bacteriocytes with pathways connecting to the external environment. <i>ISME Communications</i> , 2021, 1, .	4.2	4
57	Refolding of proteins by hexadecamers and monomers of the $\hat{1}\pm$ and $\hat{1}^2$ subunits of group II chaperonin from the hyperthermophilic archaeum <i>Thermococcus</i> strain KS-1. <i>Biochemical Engineering Journal</i> , 2004, 18, 73-79.	3.6	3
58	A Novel Alveolate in Bivalves with Chemosynthetic Bacteria Inhabiting Deep-sea Methane Seeps. <i>Journal of Eukaryotic Microbiology</i> , 2013, 60, 158-165.	1.7	3
59	Possible Roles of Hypotaurine and Thiotaurine in the Vesicomid Clam <i>Phreagena okutanii</i> . <i>Biological Bulletin</i> , 2021, 240, 34-40.	1.8	3
60	Crystallization and preliminary X-ray characterization of archaeal group II chaperonin $\hat{1}\pm$ -subunit from <i>Thermococcus</i> strain KS-1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1830-1832.	2.5	2
61	Monoclonal antibodies that recognize symbiotic bacteria and hemocytes in the deep-sea vesicomid clam <i>Phreagena okutanii</i> . <i>JAMSTEC Report of Research and Development</i> , 2018, 26, 75-83.	0.2	0
62	Molecular Detection of a Novel Perkinsid Associated with the Deep-sea Clam <i>Phreagena okutanii</i> . <i>Journal of Eukaryotic Microbiology</i> , 2022, , e12917.	1.7	0