Hayao Taguchi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41 papers	686 citations	18 h-index	24 g-index
41 ext. papers	748 ext. citations	3.4 avg, IF	3.29 L-index

#	Paper	IF	Citations
41	Characterization and structural analyses of a novel glycosyltransferase acting on the β1,2-glucosidic linkages.. *Journal of Biological Chemistry*, **2022**, 101606	5.4	0
40	Enzymatic control and evaluation of degrees of polymerization of β(1-2)-glucans. *Analytical Biochemistry*, **2021**, 632, 114366	3.1	1
39	Large-scale preparation of β1,2-glucan using quite a small amount of sophorose. *Bioscience, Biotechnology and Biochemistry*, **2019**, 83, 1867-1874	2.1	6
38	Identification, characterization, and structural analyses of a fungal endo-β1,2-glucanase reveal a new glycoside hydrolase family. *Journal of Biological Chemistry*, **2019**, 294, 7942-7965	5.4	8
37	Structural and thermodynamic insights into β1,2-glucooligosaccharide capture by a solute-binding protein in. *Journal of Biological Chemistry*, **2018**, 293, 8812-8828	5.4	14
36	Structural Basis of Sequential Allosteric Transitions in Tetrameric d-Lactate Dehydrogenases from Three Gram-Negative Bacteria. *Biochemistry*, **2018**, 57, 5388-5406	3.2	4
35	Synthesis of three deoxy-sophorose derivatives for evaluating the requirement of hydroxy groups at position 3 and/or 3Yof sophorose by 1,2-β-oligoglucan phosphorylases. *Carbohydrate Research*, **2018**, 468, 13-22	2.9	2
34	Colorimetric determination of β1,2-glucooligosaccharides for an enzymatic assay using 3-methyl-2-benzothiazolinonehydrazone. *Analytical Biochemistry*, **2018**, 560, 1-6	3.1	3
33	Characterization and Structural Analysis of a Novel exo-Type Enzyme Acting on β1,2-Glucooligosaccharides from Parabacteroides distasonis. *Biochemistry*, **2018**, 57, 3849-3860	3.2	10
32	[Review] Functions and Structures of β1,2-Glucan-related Enzymes and Proteins. *Bulletin of Applied Glycoscience*, **2018**, 8, 102-109	0.1	
31	Biochemical and structural analyses of a bacterial -β1,2-glucanase reveal a new glycoside hydrolase family. *Journal of Biological Chemistry*, **2017**, 292, 7487-7506	5.4	30
30	Mechanistic insight into the substrate specificity of 1,2-β-oligoglucan phosphorylase from Lachnoclostridium phytofermentans. *Scientific Reports*, **2017**, 7, 42671	4.9	20
29	The ternary complex structure of d-mandelate dehydrogenase with NADH and anilino(oxo)acetate. *Biochemical and Biophysical Research Communications*, **2017**, 486, 665-670	3.4	4
28	Function and structure relationships of a β1,2-glucooligosaccharide-degrading β-glucosidase. *FEBS Letters*, **2017**, 591, 3926-3936	3.8	17
27	The Simple and Unique Allosteric Machinery of Thermus caldophilus Lactate Dehydrogenase : Structure-Function Relationship in Bacterial Allosteric LDHs. *Advances in Experimental Medicine and Biology*, **2017**, 925, 117-145	3.6	10
26	Functional and Structural Analysis of a β-Glucosidase Involved in β1,2-Glucan Metabolism in Listeria innocua. *PLoS ONE*, **2016**, 11, e0148870	3.7	27
25	Large-scale Preparation of 1,2-β-Glucan Using 1,2-β-Oligoglucan Phosphorylase. *Journal of Applied Glycoscience (1999)*, **2015**, 62, 47-52	1	27

24	Diverse allosteric and catalytic functions of tetrameric d-lactate dehydrogenases from three Gram-negative bacteria. *AMB Express*, **2014**, 4, 76	4.1	10
23	The core of allosteric motion in Thermus caldophilus L-lactate dehydrogenase. *Journal of Biological Chemistry*, **2014**, 289, 31550-64	5.4	7
22	The crystal structure of D-mandelate dehydrogenase reveals its distinct substrate and coenzyme recognition mechanisms from those of 2-ketopantoate reductase. *Biochemical and Biophysical Research Communications*, **2013**, 439, 109-14	3.4	6
21	A molecular design that stabilizes active state in bacterial allosteric L-lactate dehydrogenases. *Journal of Biochemistry*, **2011**, 150, 579-91	3.1	6
20	Active and inactive state structures of unliganded Lactobacillus casei allosteric L-lactate dehydrogenase. *Proteins: Structure, Function and Bioinformatics*, **2010**, 78, 681-94	4.2	17
19	A new family of D-2-hydroxyacid dehydrogenases that comprises D-mandelate dehydrogenases and 2-ketopantoate reductases. *Bioscience, Biotechnology and Biochemistry*, **2008**, 72, 1087-94	2.1	20
18	A highly specific glyoxylate reductase derived from a formate dehydrogenase. *Biochemical and Biophysical Research Communications*, **2007**, 355, 782-7	3.4	5
17	Distinct conformation-mediated functions of an active site loop in the catalytic reactions of NAD-dependent D-lactate dehydrogenase and formate dehydrogenase. *Journal of Biological Chemistry*, **2005**, 280, 17068-75	5.4	20
16	Recognition site for the side chain of 2-ketoacid substrate in d-lactate dehydrogenase. *Journal of Biochemistry*, **2005**, 138, 741-9	3.1	20
15	Conversion of Lactobacillus pentosus D-lactate dehydrogenase to a D-hydroxyisocaproate dehydrogenase through a single amino acid replacement. *Journal of Bacteriology*, **2003**, 185, 5023-6	3.5	36
14	Crystal structure of non-allosteric L-lactate dehydrogenase from Lactobacillus pentosus at 2.3 A resolution: specific interactions at subunit interfaces. *Proteins: Structure, Function and Bioinformatics*, **2002**, 46, 206-14	4.2	18
13	Two forms of NAD-dependent D-mandelate dehydrogenase in Enterococcus faecalis IAM 10071. *Applied and Environmental Microbiology*, **2002**, 68, 947-51	4.8	21
12	An absolute requirement of fructose 1,6-bisphosphate for the Lactobacillus casei L-lactate dehydrogenase activity induced by a single amino acid substitution. *Protein Engineering, Design and Selection*, **2002**, 15, 35-41	1.9	18
11	Some Lactobacillus L-lactate dehydrogenases exhibit comparable catalytic activities for pyruvate and oxaloacetate. *Journal of Bacteriology*, **2001**, 183, 397-400	3.5	23
10	Involvement of Glu-264 and Arg-235 in the essential interaction between the catalytic imidazole and substrate for the D-lactate dehydrogenase catalysis. *Journal of Biochemistry*, **1997**, 122, 802-9	3.1	19
9	Role of histidine 188 in fructose 1,6-bisphosphate- and divalent cation-regulated L-lactate dehydrogenase of Lactobacillus casei. *Bioscience, Biotechnology and Biochemistry*, **1995**, 59, 451-8	2.1	7
8	Essential role of arginine 235 in the substrate-binding of Lactobacillus plantarum D-lactate dehydrogenase. *Journal of Biochemistry*, **1994**, 115, 930-6	3.1	28
7	Purification and characterization of a thermostable carboxypeptidase (carboxypeptidase Taq) from Thermus aquaticus YT-1. *Bioscience, Biotechnology and Biochemistry*, **1992**, 56, 1839-44	2.1	27

6	Unusual amino acid substitution in the anion-binding site of Lactobacillus plantarum non-allosteric L-lactate dehydrogenase. *FEBS Journal*, **1992**, 209, 993-8		14
5	Purification and characterization of aqualysin I (a thermophilic alkaline serine protease) produced by Thermus aquaticus YT-1. *FEBS Journal*, **1988**, 171, 441-7		83
4	Allosteric and kinetic properties of L-lactate dehydrogenase from Thermus caldophilus GK24, an extremely thermophilic bacterium.. *Agricultural and Biological Chemistry*, **1985**, 49, 359-365		8
3	Allosteric and Kinetic Properties ofL-Lactate Dehydrogenase fromThermus caldophilusGK24, an Extremely Thermophilic Bacterium. *Agricultural and Biological Chemistry*, **1985**, 49, 359-365		8
2	L-Lactate dehydrogenase from Thermus caldophilus GK24, an extremely thermophilic bacterium. Desensitization to fructose 1,6-bisphosphate in the activated state by arginine-specific chemical modification and the N-terminal amino acid sequence. *FEBS Journal*, **1984**, 145, 283-90		24
1	Heat-stable and fructose 1,6-bisphosphate-activated L-lactate dehydrogenase from an extremely thermophilic bacterium. *Journal of Biochemistry*, **1982**, 91, 1343-8	3.1	58