

Hayao Taguchi

List of Publications by Citations

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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	Purification and characterization of aqualysin I (a thermophilic alkaline serine protease) produced by <i>Thermus aquaticus</i> YT-1. <i>FEBS Journal</i> , 1988 , 171, 441-7		83
40	Heat-stable and fructose 1,6-bisphosphate-activated L-lactate dehydrogenase from an extremely thermophilic bacterium. <i>Journal of Biochemistry</i> , 1982 , 91, 1343-8	3.1	58
39	Conversion of <i>Lactobacillus pentosus</i> D-lactate dehydrogenase to a D-hydroxyisocaproate dehydrogenase through a single amino acid replacement. <i>Journal of Bacteriology</i> , 2003 , 185, 5023-6	3.5	36
38	Biochemical and structural analyses of a bacterial α -1,2-glucanase reveal a new glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , 2017 , 292, 7487-7506	5.4	30
37	Essential role of arginine 235 in the substrate-binding of <i>Lactobacillus plantarum</i> D-lactate dehydrogenase. <i>Journal of Biochemistry</i> , 1994 , 115, 930-6	3.1	28
36	Large-scale Preparation of 1,2- α -Glucan Using 1,2- α -Oligoglucan Phosphorylase. <i>Journal of Applied Glycoscience</i> (1999), 2015 , 62, 47-52	1	27
35	Purification and characterization of a thermostable carboxypeptidase (carboxypeptidase Taq) from <i>Thermus aquaticus</i> YT-1. <i>Bioscience, Biotechnology and Biochemistry</i> , 1992 , 56, 1839-44	2.1	27
34	Functional and Structural Analysis of a β -Glucosidase Involved in α -1,2-Glucan Metabolism in <i>Listeria innocua</i> . <i>PLoS ONE</i> , 2016 , 11, e0148870	3.7	27
33	L-Lactate dehydrogenase from <i>Thermus caldophilus</i> 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. <i>FEBS Journal</i> , 1984 , 145, 283-90		24
32	Some <i>Lactobacillus</i> L-lactate dehydrogenases exhibit comparable catalytic activities for pyruvate and oxaloacetate. <i>Journal of Bacteriology</i> , 2001 , 183, 397-400	3.5	23
31	Two forms of NAD-dependent D-mandelate dehydrogenase in <i>Enterococcus faecalis</i> IAM 10071. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 947-51	4.8	21
30	Mechanistic insight into the substrate specificity of 1,2- α -Oligoglucan phosphorylase from <i>Lachnoclostridium phytofermentans</i> . <i>Scientific Reports</i> , 2017 , 7, 42671	4.9	20
29	A new family of D-2-hydroxyacid dehydrogenases that comprises D-mandelate dehydrogenases and 2-ketopantoate reductases. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008 , 72, 1087-94	2.1	20
28	Distinct conformation-mediated functions of an active site loop in the catalytic reactions of NAD-dependent D-lactate dehydrogenase and formate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 17068-75	5.4	20
27	Recognition site for the side chain of 2-ketoacid substrate in d-lactate dehydrogenase. <i>Journal of Biochemistry</i> , 2005 , 138, 741-9	3.1	20
26	Involvement of Glu-264 and Arg-235 in the essential interaction between the catalytic imidazole and substrate for the D-lactate dehydrogenase catalysis. <i>Journal of Biochemistry</i> , 1997 , 122, 802-9	3.1	19
25	Crystal structure of non-allosteric L-lactate dehydrogenase from <i>Lactobacillus pentosus</i> at 2.3 Å resolution: specific interactions at subunit interfaces. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 46, 206-14	4.2	18

24	An absolute requirement of fructose 1,6-bisphosphate for the <i>Lactobacillus casei</i> L-lactate dehydrogenase activity induced by a single amino acid substitution. <i>Protein Engineering, Design and Selection</i> , 2002 , 15, 35-41	1.9	18
23	Function and structure relationships of a β 1,2-glucooligosaccharide-degrading β glucosidase. <i>FEBS Letters</i> , 2017 , 591, 3926-3936	3.8	17
22	Active and inactive state structures of unliganded <i>Lactobacillus casei</i> allosteric L-lactate dehydrogenase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 681-94	4.2	17
21	Structural and thermodynamic insights into β 1,2-glucooligosaccharide capture by a solute-binding protein in. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8812-8828	5.4	14
20	Unusual amino acid substitution in the anion-binding site of <i>Lactobacillus plantarum</i> non-allosteric L-lactate dehydrogenase. <i>FEBS Journal</i> , 1992 , 209, 993-8		14
19	Diverse allosteric and catalytic functions of tetrameric d-lactate dehydrogenases from three Gram-negative bacteria. <i>AMB Express</i> , 2014 , 4, 76	4.1	10
18	The Simple and Unique Allosteric Machinery of <i>Thermus caldophilus</i> Lactate Dehydrogenase : Structure-Function Relationship in Bacterial Allosteric LDHs. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 925, 117-145	3.6	10
17	Characterization and Structural Analysis of a Novel exo-Type Enzyme Acting on β 1,2-Glucooligosaccharides from <i>Parabacteroides distasonis</i> . <i>Biochemistry</i> , 2018 , 57, 3849-3860	3.2	10
16	Identification, characterization, and structural analyses of a fungal endo- β 1,2-glucanase reveal a new glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , 2019 , 294, 7942-7965	5.4	8
15	Allosteric and kinetic properties of L-lactate dehydrogenase from <i>Thermus caldophilus</i> GK24, an extremely thermophilic bacterium.. <i>Agricultural and Biological Chemistry</i> , 1985 , 49, 359-365		8
14	Allosteric and Kinetic Properties of L-Lactate Dehydrogenase from <i>Thermus caldophilus</i> GK24, an Extremely Thermophilic Bacterium. <i>Agricultural and Biological Chemistry</i> , 1985 , 49, 359-365		8
13	The core of allosteric motion in <i>Thermus caldophilus</i> L-lactate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2014 , 289, 31550-64	5.4	7
12	Role of histidine 188 in fructose 1,6-bisphosphate- and divalent cation-regulated L-lactate dehydrogenase of <i>Lactobacillus casei</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1995 , 59, 451-8	2.1	7
11	Large-scale preparation of β 1,2-glucan using quite a small amount of sophorose. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019 , 83, 1867-1874	2.1	6
10	The crystal structure of D-mandelate dehydrogenase reveals its distinct substrate and coenzyme recognition mechanisms from those of 2-ketopantoate reductase. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 439, 109-14	3.4	6
9	A molecular design that stabilizes active state in bacterial allosteric L-lactate dehydrogenases. <i>Journal of Biochemistry</i> , 2011 , 150, 579-91	3.1	6
8	A highly specific glyoxylate reductase derived from a formate dehydrogenase. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 355, 782-7	3.4	5
7	The ternary complex structure of d-mandelate dehydrogenase with NADH and anilino(oxo)acetate. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 486, 665-670	3.4	4

6	Structural Basis of Sequential Allosteric Transitions in Tetrameric d-Lactate Dehydrogenases from Three Gram-Negative Bacteria. <i>Biochemistry</i> , 2018 , 57, 5388-5406	3.2	4
5	Colorimetric determination of α 1,2-glucooligosaccharides for an enzymatic assay using 3-methyl-2-benzothiazolinonehydrazone. <i>Analytical Biochemistry</i> , 2018 , 560, 1-6	3.1	3
4	Synthesis of three deoxy-sophorose derivatives for evaluating the requirement of hydroxy groups at position 3 and/or 3' of sophorose by 1,2- α -glucoglycosyltransferases. <i>Carbohydrate Research</i> , 2018 , 468, 13-22	2.9	2
3	Enzymatic control and evaluation of degrees of polymerization of α (1-2)-glucans. <i>Analytical Biochemistry</i> , 2021 , 632, 114366	3.1	1
2	Characterization and structural analyses of a novel glycosyltransferase acting on the α 1,2-glucosidic linkages.. <i>Journal of Biological Chemistry</i> , 2022 , 101606	5.4	0
1	[Review] Functions and Structures of α 1,2-Glucan-related Enzymes and Proteins. <i>Bulletin of Applied Glycoscience</i> , 2018 , 8, 102-109	0.1	